



1-1961

Ursinus College Catalogue for the Ninety-second Academic Year, 1961-1962

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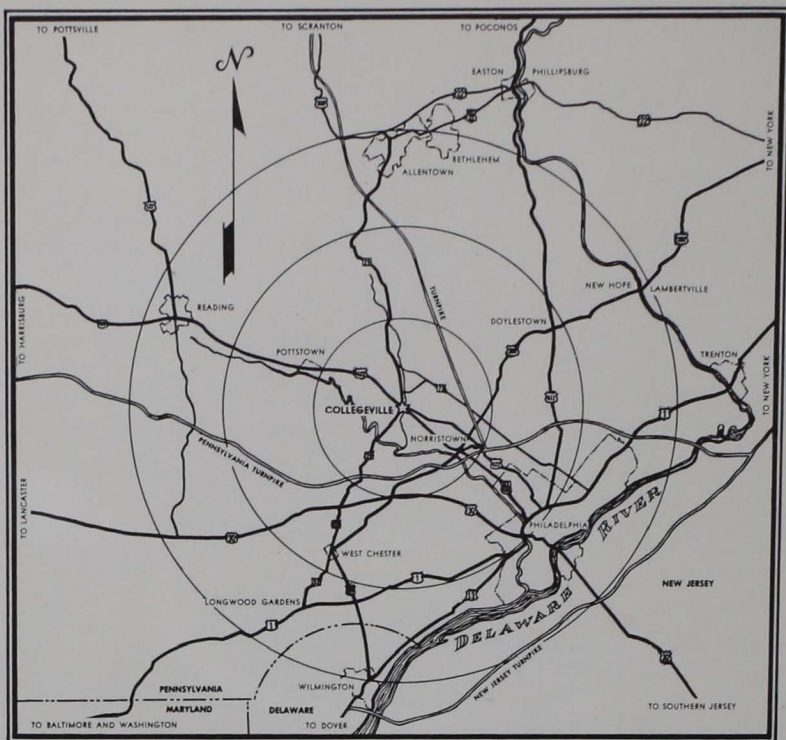
1961-1962

Catalogue Number

Vol. 59 No. 1

**URSINUS
COLLEGE
BULLETIN**





Ursinus College is located in Collegeville, a borough in Montgomery County, Pennsylvania, twenty-five miles northwest of Philadelphia. U. S. Route 422 and Pennsylvania State Highway 29 intersect at Collegeville. It may be reached from Philadelphia by means of trains of the Pennsylvania, Reading, or Philadelphia and Western (69th Street Terminal) railroads to Norristown, Pennsylvania, from where buses leave for Collegeville.

Vol. LVIX

No. 1

URSINUS COLLEGE BULLETIN

CATALOGUE NUMBER

JANUARY 1961

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THE URSINUS COLLEGE BULLETIN



THE
URSINUS COLLEGE
BULLETIN



Catalogue Number

FOR THE

Ninety-Second Academic Year

1961-1962

Collegeville, Pennsylvania

January, 1961

CORRESPONDENCE WITH URSINUS COLLEGE

Communications with the College should be addressed to the appropriate administrative officer.

GENERAL COLLEGE MATTERS

The President

ACADEMIC STANDING OF STUDENTS AND REQUESTS FOR TRANSCRIPTS

The Dean

ADMISSIONS, SCHOLARSHIPS, SUMMER SCHOOL

The Director of Admissions

EVENING SCHOOL

The Director of the Evening School

PAYMENT OF BILLS

The Treasurer's Office

STUDENT EMPLOYMENT

The Director of Student Employment

PLACEMENT OF GRADUATES

The Director of Placement

SOCIAL REGULATIONS AND DORMITORIES FOR MEN

The Dean of Men

SOCIAL REGULATIONS AND DORMITORIES FOR WOMEN

The Dean of Women

ALUMNI AFFAIRS

The Alumni Secretary

The Post Office address is Collegeville, Pennsylvania.

The College telephone number is HUXley 9-3311

Visitors to the College are welcome. Student guides are available when the College is in session. The offices of the College are open Monday through Friday 9-12 and 1-5 and on Saturdays 9-12. The Office of Admissions will be closed on Saturdays from June 15 to Labor Day. Applicants for admission are expected to write for an appointment.

Information regarding public transportation and highway routes to Collegeville will be found below the map on the inside of the cover of the Catalogue.

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The Calendar for 1961-1962

1961

JANUARY						
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The College Calendar for 1961-1962

1961

January	3	Tuesday	Christmas Recess ends, 8:00 A.M.
January	19	Thursday	First Semester examinations begin
January	27	Friday	First Semester ends, 5:30 P.M.
February	6	Monday	Second Semester begins, 8:30 A.M. Registration of new students
February	25	Saturday	Last day for filing Open Scholarship applications
March	24	Friday	Spring Recess begins, 5:30 P.M. Mid-Semester grades due
April	3	Monday	Spring Recess ends, 8:00 A.M.
May	25	Thursday	Second Semester examinations begin
June	2	Friday	Second Semester examinations end
June	3	Saturday	Alumni Day
June	4	Sunday	Baccalaureate service, 10:45 A.M.
June	5	Monday	Commencement, 11:00 A.M.
June	12	Monday	Summer School begins, 8:00 A.M.
September	1	Friday	Summer School ends, 5:30 P.M.
September	25	Monday	Freshman Program begins. Registration of new students
September	27	Wednesday	First Semester begins, 8:00 A.M.
November	4	Saturday	Homecoming Day
November	13	Monday	Mid-Semester grades due
November	22	Wednesday	Thanksgiving Recess begins, 5:30 P.M.
November	27	Monday	Thanksgiving Recess ends, 8:00 A.M.
December	15	Friday	Christmas Recess begins, 5:30 P.M.

1962

January	2	Tuesday	Christmas Recess ends, 8:00 A.M.
January	18	Thursday	First Semester examinations begin
January	26	Friday	First Semester ends, 5:30 P.M.
February	5	Monday	Second Semester begins, 8:00 A.M. Registration of new students
February	24	Saturday	Last day for filing Open Scholarship applications
March	23	Friday	Spring Recess begins, 5:30 P.M. Mid-Semester grades due
April	2	Monday	Spring Recess ends, 8:00 A.M.
April	20	Friday	Good Friday, No classes
May	24	Thursday	Second Semester examinations begin
June	1	Friday	Second Semester examinations end
June	2	Saturday	Alumni Day
June	3	Sunday	Baccalaureate Service, 10:45 A.M.
June	4	Monday	Commencement, 11:00 A.M.
June	11	Monday	Summer School begins, 8:00 A.M.
August	31	Friday	Summer School ends, 5:30 P.M.
September	23	Sunday	Academic Convocation, 4:00 P.M.
September	24	Monday	Freshman Program begins, Registration of new students
September	26	Wednesday	First Semester begins, 8:00 A.M.



The Directors

	<i>First Elected</i>	<i>Term Expires</i>
REV. TITUS A. ALSPACH, D.D., Lancaster	1925	1965
LILLIAN ISENBERG BAHNEY, B.A., Myerstown	1951	1961
THOMAS J. BEDDOW, B.A., LL.B., Washington, D. C.	1958	1963
CHARLES A. BEHNEY, M.D., Lansing, Michigan	1937	1962
REV. C. EUGENE BLUM, B.A., B.D., D.D., York	1950	1965
SAMUEL C. BOND, JR., B.A., Orefield	1952	1962
PHILIP L. CORSON, B.A., LL.D., Plymouth Meeting	1960	1965
WALTER R. DOUTHETT, M.A., Margate City, N. J.	1936	1961
THOMAS P. GLASSMOYER, B.S., LL.B., Willow Grove	1956	1961
JESSE G. HEIGES, B.A., LL.B., New York, N. Y.	1959	1964
DONALD L. HELFFERICH, B.A., LL.B., LL.D., Collegeville	1927	1962
EVELYN GLAZIER HENZEL, M.A., Glenside	1950	1965
REV. MERRITT J. JEFFERS, M.S., B.D., D.D., Myerstown	1953	1963
RHEA DURYEA JOHNSON, B.A., Litt.D., Philadelphia	1928	1963
ROBERT L. JOHNSON, LL.D., Philadelphia	1947	1962
REV. W. SHERMAN KERSCHNER, D.D., Philadelphia	1940	1965
CHARLES LACHMAN, LL.D., Bryn Mawr	1949	1964
STEWART E. LAUER, B.S., LL.D., York	1953	1963
*REV. JOHN LENTZ, D.D., Collegeville	1946	1961
D. STERLING LIGHT, B.A., Norristown	1947	1962
N. E. MCCLURE, Ph.D., Litt.D., LL.D., L.H.D., Collegeville	1936	1961
CHARLES H. NOSS, LL.D., York	1944	1964
ELLWOOD S. PAISLEY, B.S., Philadelphia	1959	1964
HARRY E. PAISLEY, LL.D., Philadelphia	1907	1962
MURIEL BRANDT PANCOAST, M.A., Collegeville	1960	1965
WILLIAM D. REIMERT, B.A., LL.D., Allentown	1947	1962
CHESTER ROBBINS, M.A., LL.D., Princeton, N. J.	1943	1964
CHARLES V. ROBERTS, B.S., Drexel Hill	1956	1961
REV. WILLIAM R. SHAFFER, B.A., D.D., Philadelphia	1957	1962
GEORGE L. THOMAS, JR., B.A., D.C.S., Lilypons, Md.	1951	1961
ROBERT R. TITUS, B.S., LL.D., Villanova	1948	1963
CLARENCE A. WARDEN, JR., LL.D., Philadelphia	1957	1962
RALPH F. WISMER, Esq., B.A., LL.D., Collegeville	1938	1963
HARLESTON R. WOOD, B.A., LL.D., Conshohocken	1956	1961

*Died, February 1, 1960

COMMITTEES OF THE BOARD OF DIRECTORS

Executive Committee: W. D. REIMERT, R. F. WISMER, H. E. PAISLEY, D. L. HELFFERICH, N. E. MCCLURE, D. S. LIGHT, C. LACHMAN, T. P. GLASSMOYER, P. L. CORSON.

Committee on Finance: R. F. WISMER, H. E. PAISLEY, N. E. MCCLURE, D. L. HELFFERICH, R. R. TITUS, C. LACHMAN, W. D. REIMERT, C. A. WARDEN, JR., H. R. WOOD.

Committee on Buildings and Grounds: C. LACHMAN, W. R. DOUTHETT, N. E. MCCLURE, D. S. LIGHT, C. H. NOSS, W. D. REIMERT, D. L. HELFFERICH, C. V. ROBERTS.

Committee on Instruction: D. L. HELFFERICH, N. E. MCCLURE, R. L. JOHNSON, C. ROBBINS, C. V. ROBERTS.

Committee on Long-Term Planning: C. LACHMAN, W. R. DOUTHETT, C. H. NOSS, R. F. WISMER, N. E. MCCLURE, D. L. HELFFERICH, H. E. PAISLEY, S. C. BOND, JR., C. E. BLUM, E. G. HENZEL.

Committee on Budget: R. F. WISMER, C. A. WARDEN, JR., W. R. DOUTHETT, N. E. MCCLURE, D. L. HELFFERICH, W. R. SHAFFER.

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First Vice-President: WILLIAM D. REIMERT, Allentown.

Second Vice-President: REV. WILLIAM R. SHAFFER, Philadelphia.

Secretary: RALPH F. WISMER, Collegeville.

Assistant Secretary: D. STERLING LIGHT, Norristown.

Treasurer: RALPH F. WISMER, Collegeville.

The Administration

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CHARLES LACHMAN, LL.D., *Vice President*

WILLIAM S. PETTIT, M.S., *Dean*

GEOFFREY DOLMAN, M.A., *Director of Admissions*

H. LLOYD JONES, JR., M.A., *Assistant Director of Admissions*

ALLAN L. RICE, Ph.D., *Assistant to the Director of Admissions*

WILLIAM J. PHILLIPS, Ph.D., *Director of the Evening School*

REV. ALFRED L. CREAGER, B.S., B.D., D.D., *College Chaplain*

RICHARD J. WHATLEY, M.S., *Dean of Men*

MISS RUTH H. ROTHENBERGER, M.A., *Dean of Women*

CALVIN D. YOST, JR., Ph.D., *Librarian*

RALPH F. WISMER, ESQ., B.A., LL.D., *Treasurer*

JAMES R. RUE, *Manager, Treasurer's Office*

JAMES A. MINNICH, M.A., *Director of Placement*

EVERETT M. BAILEY, M.A., *Director of Athletics*

CHARLES D. MATTERN, Ph.D., *Director of Student Employment*

JOHN R. GUSTAVSON, B.A., *Director of Publicity*

EDWARD H. PLATTE, M.D., *College Physician*

MISS HELEN M. MOLL, R.N., *Resident Nurse*

RUSSELL L. REMIG, Ch.E., *Superintendent of Buildings and Grounds*

WILLIAM S. FRIEDEBORN, B.A., *Manager of the Supply Store*

REV. RICHARD T. SCHELLHASE, B.A., B.D., *Alumni Secretary*

JOSEPH J. LYNCH, *Steward*

THE ADMINISTRATIVE STAFF

Resident

MR. H. LLOYD JONES, JR., M.A., *Fetterolf House*

Preceptresses

MRS. G. HENRY SHRYOCK, *Hobson Hall*

MRS. A. E. SCHELLHASE, *646 Main Street*

MRS. PAUL E. TOWERS, *Paisley Hall*

MRS. CLOYD A. HAZLETT, *Clamer Hall*

MRS. JOHN H. McCANDLESS, *Stauffer Hall*

MRS. LAWRENCE H. PEARSON, B.S., *Beardwood Hall*

MRS. ROBERT R. MACMURRAY, B.A., *Duryea Hall*

MRS. WALTER W. PRIZER, *944 Main Street*

MRS. SAMUEL BUCKWALTER, *Shreiner Hall*

MRS. WILLIAM BUGELHOLL, *942 Main Street*

Library

MRS. EMANUEL S. MENDELSON, B.A., M.S. in L.S.

MRS. ROGER P. STAIGER, B.A.

MRS. RICHARD T. SCHELLHASE, B.A., M.S. in L.S.

Assistants

MR. WALLACE D. ANGSTADT, *Treasurer's Office*

MR. FREDERICK WENTZ, *Treasurer's Office*

MR. HARRY W. GEHMAN, *Treasurer's Office*

MRS. VERA SCHUSHNAR, R.N., *Assistant Resident Nurse*

MR. HOWARD W. SCHULTZE, *Assistant to the Superintendent of Buildings*

MR. JAMES M. PARKER, *Assistant to the Steward*

Secretaries

MRS. MARY S. STEELE, *President's Office*

MRS. H. ARNOLD SMITH, *Dean's Office*

MRS. ROBERT L. GRANOFF, *Dean's Office*

MRS. PAUL L. DREIBELBIS, *Dean of Women's Office*

MISS JUDITH E. FRYER, *Office of Admissions*

MRS. C. F. DONAHUE, JR., *Office of Admissions*

MRS. EDGAR T. CHRISSEMER, *Placement Office*

MRS. JAMES THOMSON, *Placement Office*

MRS. MAURICE O. BONE, *Alumni Office*

MRS. HORACE E. GODSHALL, *Alumni Office*

*The Faculty, 1960-1961 **

DONALD LAWRENCE HELFFERICH, A.B., LL.B., LL.D., *President*

B.A., Ursinus College; LL.B., Yale University School of Law; LL.D., Ursinus College, Temple University.

NORMAN EGBERT MCCLURE, Ph.D., Litt.D., LL.D., L.H.D., *President, Emeritus; Professor of English, Emeritus*

B.A., Ursinus College; M.A., Pennsylvania State University; Ph.D., University of Pennsylvania; Litt.D., Pennsylvania Military College, Drexel Institute of Technology; LL.D., Temple University; L.H.D., Franklin and Marshall College.

WILLIAM SCHUYLER PETTIT, M.S., *Dean; Professor of Chemistry*
B.S. in Chem., M.S., University of Pennsylvania.

JOHN WENTWORTH CLAWSON, M. A., Sc.D., *Dean, Emeritus; Professor of Mathematics, Emeritus*

B.A., M.A., University of New Brunswick; B.A., Cambridge University; Sc.D., Ursinus College.

ELIZABETH BRETT WHITE, Ph.D., *Professor of History, Emeritus*

B.A., Cornell University; M.A., University of Wisconsin; Ph.D., Clark University.

CHARLES LYON CHANDLER, B.A., LL.D., *Professor of Political Science, Emeritus*

B.A., Harvard University; LL.D., University of Porto Alegre; LL.D., University of Bogota.

HARVEY ROSEN VANDERSLICE, M.A., Ped.D., *Professor of Education, Emeritus*

B.A., Ursinus College; M.A., University of Pennsylvania; Ped.D., Ursinus College.

JAMES LANE BOSWELL, Ph.D., *Professor of Economics, Emeritus*

B.A., Georgetown College; M.A., Ph.D., University of Pennsylvania.

RUSSELL DAVIS STURGIS, Ph.D., *David Laucks Hain Professor of Chemistry*

B.A., University of Delaware; M.S., Ph.D., University of Pennsylvania.

GEORGE RUSSELL TYSON, Ph.D., *Professor of Psychology and Education*

B.S., M.A., Ph.D., University of Pennsylvania.

MAURICE OBERLIN BONE, B.C.S., *Professor of Economics*

B.C.S., Northwestern University.

*Listed in order of appointment to present rank; appointments of the same year are listed alphabetically.

FRANK LEROY MANNING, Ph.D., *Professor of Mathematics*

B.S., Cornell University; M.S., Rutgers University; Ph.D., Cornell University.

DONALD GAY BAKER, Ph.D., *Professor of Greek*

B.A., Haverford College; M.A., Ph.D., Harvard University.

GEORGE WELLINGTON HARTZELL, Ph.D., *Professor of German*

B.A., Lehigh University; M.A., Ph.D., University of Pennsylvania.

CALVIN DANIEL YOST, JR., Ph.D., *Librarian; Professor of English*

B.A., Ursinus College; M.A., Ph.D., University of Pennsylvania.

MAURICE WHITMAN ARMSTRONG, S.T.M., Ph.D., *Professor of History*

B.A., M.A., Dalhousie University; B.D., Pine Hill Divinity Hall; S.T.M., Ph.D., Harvard University.

PAUL RAYMOND WAGNER, Ph.D., *J. Harold Brownback Professor of Biology*

B.S., Ursinus College; M.S., Ph.D., University of Pennsylvania.

EVERETT MARTIN BAILEY, M.A., *Director of Athletics; Professor of Physical Education*

B.P.E., B.S., Springfield College; M.A., Columbia University.

JOHN JACOB HEILEMANN, Ph.D., *Professor of Physics*

B.A., M.A., Ph.D., University of Pennsylvania.

CHARLES DAVID MATTERN, Ph.D., *Professor of Philosophy*

B.S., Ursinus College; Ph.D., University of Pennsylvania.

EUGENE HERBERT MILLER, Ph.D., *Professor of Political Science*

B.A., Ursinus College; M.A., Ph.D., Clark University.

WILLIAM FRANKLIN PHILIP, Mus. Doc., *Professor of Music*

Mus.B., Mus.M., Mus.Doc., State Academy of Church and School Music, Berlin.

FOSTER LEROY DENNIS, Ph.D., *Professor of Mathematics*

B.S., Ursinus College; M.A., Cornell University; Ph.D., University of Illinois.

WILLIAM JOHN PHILLIPS, Ph.D., *Professor of English*

B.A., M.A., Ph.D., University of Pennsylvania.

*ALFRED MILES WILCOX, Ph.D., *Professor of Romance Languages*

B.A., Wesleyan University; M.A., Brown University; Ph.D., University of Pennsylvania.

ELEANOR FROST SNELL, M.A., *Professor of Physical Education*

B.A., University of Nebraska; M.A., Columbia University.

*Died, March 17, 1960

ALLAN LAKE RICE, Ph.D., *Assistant to the Director of Admissions; Professor of German*

B.A., M.A., Ph.D., University of Pennsylvania.

HELEN THOMPSON GARRETT, Ph.D., *Professor of French*

B.A., Swarthmore College; *Diplome*, University of Lille; Ph.D., University of Pennsylvania.

GARFIELD SIEBER PANCOAST, Ph.D., *Professor of Political Science*

B.S., Ursinus College; M.A., Ph.D., University of Pennsylvania.

MARK GUY MESSINGER, Ed.D., *Professor of Education*

B.A., Ursinus College; M.A., University of Pennsylvania; Ed.D., Temple University.

JAMES ALLAN MINNICH, M.A., *Director of Placement and Professor of Education*

B.S., M.A., University of Pennsylvania.

LEVIE VAN DAM, Ph.D., *Professor of Biology*

B.S., M.S., Ph.D., Groningen State University, The Netherlands.

ROLAND FREEMAN DOANE, D.U., *Visiting Professor of Romance Languages*

B.S., Harvard University; M.A., Middlebury College; *Docteur*, University of Paris.

ALRED LEON CREAGER, B.S., B.D., D.D., *Chaplain; Associate Professor of the History of the Christian Church*

B.S., Ursinus College; B.D., The Theological Seminary, Lancaster; D.D., Ursinus College.

RAYMOND VICTOR GURZYNSKI, M.Ed., *Associate Professor of Physical Education*

B.S., Ursinus College; M.Ed., Temple University.

GEOFFREY DOLMAN, M.A., *Director of Admissions; Associate Professor of English*

B.A., M.A., University of Pennsylvania.

ROGER POWELL STAIGER, Ph.D., *Associate Professor of Chemistry*

B.S., Ursinus College; M.S., Ph.D., University of Pennsylvania.

RICHARD MUMMA FLETCHER, Ph.D., *Associate Professor of Psychology*

B.A., Franklin and Marshall College; Ph.D., Pennsylvania State University.

GEORGE GILBERT STOREY, Ph.D., *Associate Professor of English*

B.A., Geneva College; M.A., Duke University; M.A., Ph.D., Harvard University.

- ELIZABETH READ FOSTER, Ph.D., *Associate Professor of History*
B.A., Vassar College; M.A., Columbia University; Ph.D., Yale University.
- EVAN SAMUEL SNYDER, Ph.D., *Associate Professor of Physics*
B.S., Ursinus College; M.S., Ph.D., University of Pennsylvania.
- FREDERICK DONALD ZUCKER, Ph.D., *Associate Professor of Political Science*
B.A., Rutgers University; M.A., Ph.D., Pennsylvania State University.
- CAROLINE VISSCHER DOANE, D.U., *Associate Professor of Modern Languages*
M.A., University of Utrecht, The Netherlands; Docteur, University of Paris.
-
- JAMES DOUGLAS DAVIS, M.A., *Assistant Professor of History*
B.A., Ursinus College; M.A., University of Pennsylvania.
- BLANCHE BEATRICE SCHULTZ, M.S., *Assistant Professor of Mathematics*
B.S., Ursinus College; M.S., University of Michigan.
- HOWARD LLOYD JONES, JR., M.A., *Assistant Director of Admissions; Assistant Professor of English*
B.A., University of Delaware; M.A., University of Pennsylvania.
- AMMON GEORGE KERSHNER, JR., Ph.D., *Assistant Professor of English*
B.S., M.S., M.A., Ph.D., University of Pennsylvania.
- WILLIAM THOMAS PARSONS, Ph.D., *Assistant Professor of History*
B.A., Ursinus College; M.A., Ph.D., University of Pennsylvania.
- WALTER WOODROW MARSTELLER, B.S., *Assistant Professor of Physics*
B.S., Ursinus College.
- HARRY CLAY SYMONS, M.A., *Assistant Professor of Economics*
B.A., M.A., Pennsylvania State University.
- RICHARD TYSON SCHELLHASE, B.A., B.D., *Assistant Professor of Religion*
B.A., Ursinus College; B.D., The Theological Seminary, Lancaster.
- RAYMOND LOUIS RAFETTO, JR., B.S., M.A., *Assistant Professor of Economics*
B.S., Temple University; M.A., University of Pennsylvania.
- DAVID WALTER BAKER, M.D., *Assistant Professor of Religion*
B.A., Coe College; Th.B., Princeton Theological Seminary; M.D., University of Pennsylvania.
- DONALD HOLLY FORTNUM, Ph.D., *Assistant Professor of Chemistry*
B.S., Carroll College; Ph.D., Brown University.
- RICHARD JACOB WHATLEY, M.S., *Dean of Men; Assistant Professor of Physical Education*
B.S., University of Maine; M.S., Springfield College.

PHOEBE JANE HARRIS, M.S., *Assistant Professor of Health and Physical Education*

B.A., Syracuse University; M.S., Smith College.

JESSIE ASHWORTH MILLER, Ph.D., *Lecturer in Sociology*

B.A., University of Maine; M.A., Ph.D., Clark University.

MARIAN GERTRUDE SPANGLER, B.A., *Instructor in Music*

B.A., Ursinus College.

CHARLES DAVID HUDNUT, B.A., *Instructor in English*

B.A., Ursinus College.

ROBERT ROSS MACMURRAY, M.B.A., *Instructor in Economics*

B.A., Ursinus College; M.B.A., University of Pennsylvania.

HUGH NED SEELYE, B.A., *Instructor in Spanish*

B.A., Brigham Young University.

ANNEMARIE GERTRUDE GROPP, B.A., *Instructor in German*

B.A., Temple University.

JOHN RAYMOND GUSTAVSON, B.A., *Instructor in English*

B.A., Upsala College.

REDJEB JORDANIA, M.A., *Instructor in Romance Languages*

B.A., University of Paris; M.A., Ecole des Sciences Politiques, University of Paris.

ROBERT VIRGIL KIRCHEN, M.S., *Instructor in Biology*

B.A., M.S., University of Michigan.

JANE PERRETEEN SHINEHOUSE, P.T., *Assistant in Biology*

B.S., Ursinus College; P.T., University of Pennsylvania.

OFFICERS OF THE FACULTY

Chairman, THE PRESIDENT

Secretary, PROFESSOR YOST

ACADEMIC COUNCIL

THE PRESIDENT

THE DEAN

PROFESSOR YOST

PROFESSOR MILLER

PROFESSOR HEILEMANN

ADVISERS

Biology Department, Professor Wagner
Chemistry Department, Professor Sturgis
Classics Department, Professor Baker
Economics and Business Administration Department, Professor Bone
Engineering, Professor Heilemann
English Department, Professor Yost
German Department, Professor Hartzell
Health and Physical Education, Professor Minnich
History Department, Professor Armstrong
Mathematics Department, Professor Manning
Physics Department, Professor Heilemann
Political Science Department, Professor Miller
Psychology Department, Professor Tyson
Romance Languages Department, Professor Hartzell
Undesignated, Professor Hartzell
Foreign Students, Professor Rice

COMMITTEES

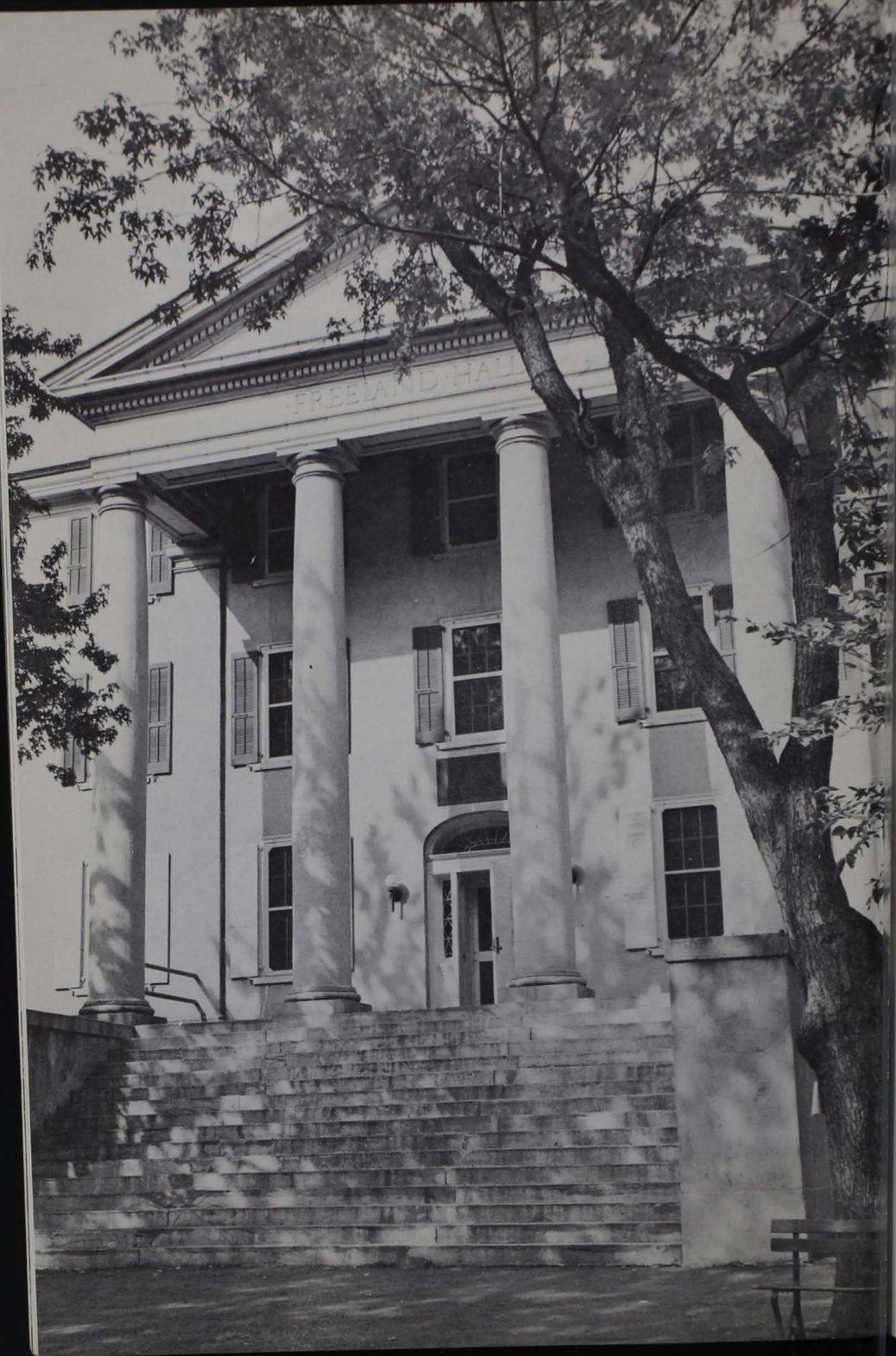
Admission and Standing: THE PRESIDENT, DEAN PETTIT, PROFESSOR YOST, PROFESSOR DOLMAN, PROFESSOR JONES.
Library: THE PRESIDENT, THE LIBRARIAN, PROFESSOR ARMSTRONG, PROFESSOR STURGIS, PROFESSOR E. H. MILLER, PROFESSOR RAFETTO.
Scholarships: THE PRESIDENT, DEAN PETTIT, PROFESSOR MATTERN, PROFESSOR DOLMAN, PROFESSOR JONES.
Discipline: DEAN PETTIT, DEAN ROTHENBERGER, DEAN WHATLEY, PROFESSOR DOLMAN, PROFESSOR STURGIS, PROFESSOR DENNIS, PROFESSOR FLETCHER.
Student Activities: DEAN ROTHENBERGER, DEAN WHATLEY, THE CHAPLAIN, PROFESSOR PARSONS, PROFESSOR STAIGER, PROFESSOR PANCOAST.
Student Publications: PROFESSOR MATTERN, PROFESSOR STOREY, PROFESSOR JONES, PROFESSOR SCHELLHASE, MR. HUDNUT.

Athletics: PROFESSOR BAILEY, PROFESSOR PANCOAST, PROFESSOR DOLMAN, PROFESSOR SCHELLHASE, DEAN WHATLEY.

Forum and Cultural Activities: PROFESSOR E. H. MILLER, PROFESSOR FOSTER, PROFESSOR DONALD G. BAKER, PROFESSOR RICE, DEAN ROTHENBERGER.

Curriculum: DEAN PETTIT, PROFESSOR ARMSTRONG, PROFESSOR DONALD G. BAKER, PROFESSOR HEILEMANN, PROFESSOR E. H. MILLER, PROFESSOR STURGIS, PROFESSOR TYSON, PROFESSOR YOST, PROFESSOR HARTZELL.





Historical Sketch

THE BEGINNING of educational work on what is now the campus of Ursinus College dates back to the construction of a primitive schoolhouse built of logs probably two centuries ago. The ancient building was razed in 1832 when Todd's School was built in the town of Perkiomen Bridge, now Collegeville. In 1848 Freeland Seminary was opened on a tract adjacent to Todd's School. The new school occupied the buildings now known as Freeland Hall and Stine Hall. During the following two decades many hundreds of young men were educated here.

In 1867 a group of men, members of the German Reformed Church, actuated by a desire to serve the interests of higher education and of evangelical Christian religion, laid plans to establish a college where, to quote their words, young men could be "liberally educated under the benign influence of Christianity." They chose as the name of the College that of the distinguished sixteenth-century scholar and reformer, Zacharius Ursinus of the University of Heidelberg. In 1869 the charter was granted by the Legislature of Pennsylvania. The buildings of Freeland Seminary were bought, and instruction was begun on September 6, 1870. Women were admitted to the College for the first time in 1881.

Coincident with the founding of the College was the establishment of a preparatory department as a successor to Freeland Seminary. The preparatory school was called Ursinus Academy and was operated as such until 1910, when it was discontinued.

Although Ursinus College admits students of all faiths, the College has been since its founding a church-related college, related to the German Reformed Church, later known as the Reformed Church in the United States, from 1934 to 1957 known as the Evangelical and Reformed Church, and since 1957 known as the United Church of Christ.

COLLEGE PRINCIPLES

URSINUS COLLEGE is a Christian, coeducational, liberal arts college which seeks to help the student to understand and to emulate excellence in scholarship and in conduct. Although in recent decades the College has extended its work to include the preparation of men and women for a variety of professions, the College continues to emphasize the fact that however varied and specialized the changing needs of the day, the fundamental needs of man remain constant. Each student, whatever his field of specialization, is required to study those subjects which are the core of our cultural heritage.

Ursinus recognizes its duty to preserve the cultural and spiritual tradition which this generation has inherited and to transmit this sense of duty to succeeding generations.

The College seeks to help the students to develop those qualities which will fit them for the extraordinary responsibilities of educated men and women. The purposes of the College are achieved through its curriculum, through the many extra-curricular activities, and through the pattern of campus life.

The whole educational program serves to cultivate a particular set of qualities in the students:

- (1) An active intellectual curiosity and a desire to learn
- (2) A knowledge of the techniques of sound scholarship
- (3) An ability to think logically and critically
- (4) A mature understanding of one's self, of others, and of society
- (5) An insight into our natural environment, and a knowledge of the laws governing it
- (6) An appreciation of our cultural inheritance
- (7) A sense of responsibility
- (8) Attitudes consonant with the Christian ideal of morality and service

CULTURAL ENVIRONMENT

STUDENTS AT URSINUS have all the advantages of living in the country, and at the same time they are close enough to New York and Philadelphia to have access to such additional opportunities for culture as the symphony orchestra, grand opera, legitimate theatres, museums, lectures, and exhibits.

Ursinus is located in the heart of a region which is rich in historical tradition. In Colonial days this region was the center of the cultural and political development of America.

ACCREDITATION

URSINUS IS A MEMBER of the Association of American Colleges, and is on the approved list of the Middle States Association of Colleges and Secondary Schools, the American Association of University Women, and the American Chemical Society.

College Activities

ATHLETICS

URSINUS RECOGNIZES the physical and moral benefit derived from athletic activity and accordingly offers a well-balanced sports program open to all. Intercollegiate competition is encouraged in football, basketball (varsity and junior varsity), soccer, wrestling, baseball, track and tennis. In addition to this intercollegiate program intramural games are played. Intramural athletics for men include league competition in touch football, basketball, and softball, and an elimination tournament in tennis.

For women students, the College supports intercollegiate competition in hockey (varsity and junior varsity), basketball (varsity and junior varsity), softball, tennis, swimming, lacrosse and badminton. The intramural program provides voluntary recreation in hockey, basketball, tennis and softball.

The gymnasiums, playing fields, and equipment available for the pursuit of these various activities are described under Buildings and Equipment. (See pp. 27 to 29.)



ORGANIZATIONS

A LARGE NUMBER of organizations provide numerous and varied facilities of extra-curricular activity. All such organizations are approved by the Faculty and are supervised by the Committee on Student Activities or the Dean of Men and Dean of Women. In addition various members of the Faculty serve these groups as advisers. Student life on campus is regulated and controlled by the Men's Student Council and the Women's Student Government Association under the direction of the Dean of Men and the Dean of Women. Members of the student governing organizations are elected by the student body.

One of the most active organizations is the Young Men's and Young Women's Christian Association of which every student is nominally a member. Numerous religious and social activities are planned and sponsored by this group in collaboration with other campus groups. Allied religious and service groups are the Chi Alpha Society for those students planning to enter the ministry or other religious work, the Canterbury Club, and the Newman Club.

Society, the Beardwood Chemical Society, the English Club, the French of study or in future occupations: the Brownback-Anders Pre-Medical Society, the Beardwood Chemical Society, the English Club, the French Club, the Pre-Legal Society, the Student National and Pennsylvania State





Education Associations, and the Business Administration Club. Interest in athletics and campus spirit is fostered by the Women's Athletic Association, the Varsity Club, and the Spirit Committee. A chapter of the Honorary Social Studies Society, Pi Gamma Mu, has been established.

A large and varied program of dramatics is sponsored and carried out by the Curtain Club, which presents two major productions a year in addition to various group productions. There is at Ursinus a chapter of Alpha Psi Omega, a national honorary dramatic fraternity.

The Debating Club each year holds intercollegiate and intramural debates on topics of national interest. Members may qualify for election to Tau Kappa Alpha, the national honorary debating fraternity.

Music plays a large part in the life at Ursinus. The College Choir, the Glee Club, and the Band all serve to encourage an interest in good music. One of the outstanding musical events of the year is the traditional rendering of Handel's *Messiah* each year during the Christmas season.

There are eleven local social organizations on the Ursinus campus. The fraternities are Sigma Rho Lambda, Zeta Chi, Alpha Phi Epsilon, Delta Mu Sigma, Beta Sigma Lambda, and Delta Pi Sigma. The sororities are Omega Chi, Alpha Sigma Nu, Kappa Delta Kappa, Phi Alpha Psi, and Tau Sigma Gamma.

PUBLICATIONS

THE URSINUS BULLETIN, of which the Catalogue is a number, is the official publication of the College. It is issued five times a year.

THE ALUMNI JOURNAL, the official publication of the Alumni Association, appears three times a year.

THE URSINUS WEEKLY is the Ursinus newspaper. It is managed by a Board of Control consisting of student and faculty representatives and is edited and written entirely by the students. The Editor-in-Chief, the associate editors, and the business manager are elected by the board on the basis of merit and the staff is selected by the editors on the same basis. The paper appears each week and is of interest to students and alumni as a record of life at Ursinus.

THE LANTERN serves as an outlet for those interested in creative writing and art. It is written and edited by an all-student staff under the direction of a member of the Faculty Committee on Student Publications. It is published three times a year.

THE RUBY, the Ursinus yearbook, is published by the Senior Class each year. It is a volume presenting an intimate pictorial account of the year's activities, not only of the Class, but of the entire College.



Buildings and Equipment

BOMBERGER MEMORIAL HALL, named for J. H. A. Bomberger, President of Ursinus College, 1870-1890, is a large and imposing structure in the Romanesque style of architecture, built of Pennsylvania blue marble. This building is for the use of the departments of language and literature, the social sciences, history, philosophy, religion, public speaking, and music. In it are the chapel, twelve classrooms, six conference rooms, a seminar room, two music studios, two studies for day students, a recreation room, the student lounge, and the offices of the Dean, the Dean of Men, the Director of Admissions, the Treasurer, the Director of Student Teaching and Placement, and the Director of Student Employment. The erection of Bomberger Hall was made possible by the benefactions of the late Robert Patterson.

PFAHLER HALL OF SCIENCE, erected in 1932, and named in honor of Dr. George E. Pfahler, is a stone and concrete building. The first floor and basement are devoted to work in psychology, education, mathematics, and physics, the second floor to biology, and the third floor to chemistry. The building contains the offices of the President and Vice-President, the Levi Jay Hammond Laboratory of Comparative Anatomy, the W. Wayne Babcock Laboratory of General Biology, the Anna Heinly Schellhamer Laboratory, the Schellhamer Laboratory, nine other teaching laboratories, two laboratories for research, nine professors' laboratories and offices, seven classrooms, a lecture hall with gallery and projection booth, and a library. The building is equipped with a deck for astronomical observation, on which is mounted the Elihu Thomson Memorial Telescope.

THE ALUMNI MEMORIAL LIBRARY contains reading rooms, offices of the library staff, seminar rooms, workroom, faculty and directors' room, stacks, vaults containing rare books and manuscripts, music room, and the Shaw-Bernard (Museum) Collection of curios and *objects d'art*.

The Library collection of 54,000 volumes, exclusive of government documents and pamphlets, has been selected to serve the needs of the liberal arts college. The Library receives over 300 periodicals and newspapers. The location of Ursinus College in the Philadelphia area makes available for special studies the considerable bibliographical holding of neighboring libraries through personal consultation or inter-library loan.

THE THOMPSON-GAY GYMNASIUM, built in 1927, occupies a convenient position adjoining Patterson Field and John B. Price Field. It is built of native brownstone, structural steel, and concrete. It contains a playing floor, a gallery for spectators, locker rooms, shower rooms, coaches' offices,

and storage rooms. At one end of the main floor is a completely equipped theatrical stage. Portable seating constitutes a part of the equipment of the building. This building is a memorial to Robert W. Thompson, '12, and George H. Gay, '13, noted Ursinus athletes, both of whom died in their senior year at the College.

THE COLLEGE GYMNASIUM, erected in 1947, is located near the Thompson-Gay Gymnasium and Price Field. It contains a large basketball court, two single handball courts, seating for 800 spectators, two dressing and shower rooms for players, a dressing room for officials, and storage rooms.

SUPERHOUSE, a residence on Main Street opposite the campus, was bequeathed to the College by the late Henry W. Super, D.D., LL.D., Vice-President and Professor of Mathematics, 1870-1891, and President, 1892-1893.

SPRINKLE HALL, on the east campus fronting Fifth Avenue, is the infirmary.

PATTERSON FIELD, named for Robert Patterson, first benefactor of the College, contains the varsity football field, space for competition in field events, and a quarter mile track with a 220-yard straightaway. The steel grandstand provides seating for 1440 spectators.

PRICE FIELD, named for Dr. John Price, '05, one of the great athletes in Ursinus history, contains the soccer field, the baseball diamond, several softball fields, and football practice ground.

THE TENNIS COURTS are at the rear of Curtis Dormitory.

THE EFFIE BRANT EVANS HOCKEY FIELD is located on the east campus near Stauffer Hall.

THE EGER GATEWAY, erected by the generosity of George P. Eger, of Reading, Pennsylvania, stands at the entrance of the walk leading from Main Street to Freeland Hall.

POST OFFICE AND SUPPLY STORE. A Post Office is maintained on the campus for the convenience of students. Adjacent to the Post Office is the Supply Store, in which are sold text books, college jewelry, stationery, confections, and students' supplies.

DORMITORIES FOR MEN

Freeland Hall, erected in 1848, is the original building of Freeland Seminary. *Derr Hall* and *Stine Hall* are additions to *Freeland Hall*. The

buildings are of stone, four stories in height with a fifth story of dormer rooms. On the two lower floors are the four dining rooms, the kitchen, storage and refrigeration rooms, and the office of the steward. The upper floors are for the residence of men students. The rooms are designed for one or two occupants, a number being arranged *en suite*.

The Brodbeck and Curtis Dormitories for Men are buildings in English Colonial style. Each building has four floors. They bear the names of esteemed benefactors of the College, Andrew R. Brodbeck and Cyrus H. K. Curtis.

Maples, 512 Main Street; *Fetterolf House*, 554 Main Street; 724 Main Street; and 801 Main Street are all residence halls for men.

Fircroft, 930 Main Street, a residence for men students, was presented to the College by Miss Sara E. Ermold as a memorial to her mother, Ella N. Ermold.

Trinity Cottage familiarly known as *South Hall*, a residence for men, is located on Sixth Avenue.

DORMITORIES FOR WOMEN

Paisley Hall, *Stauffer Hall* and *Beardwood Hall*, are three new dormitories for women. The buildings house 244 women and are located on the east campus behind the Alumni Memorial Library.

Hobson House is located at Sixth Avenue and Main Street. It is used as a residence hall for women.

Shreiner Hall, fronting on Main Street and facing the College campus, is a residence hall for women. This is a three-story brick building arranged for the accommodation of thirty-three students and a faculty family.

Duryea Hall, 612 Main Street, next to Shreiner Hall, is a residence hall for fifteen women and a faculty family.

Clamer Hall, Main Street, the gift of Dr. Guillian H. Clamer, is a residence hall for women.

646 Main Street, 942 Main Street, and 944 Main Street are residence halls for women.



Admission

THE FIRST step in seeking admission to Ursinus College is to file an application. A form for this purpose may be obtained from the Office of Admissions. After the completed form has been returned to the College, accompanied by the ten-dollar pre-matriculation fee, the Director of Admissions will request the applicant's school principal or headmaster to send an official transcript of the school record. At the same time, inquiry is made concerning the character of the candidate and his ability to do college work.

Applications for financial aid should be filed at the time the candidate applies for admission.

It is the responsibility of the candidate to make arrangements to take the Scholastic Aptitude Test according to the instructions below.

TESTS

ALL CANDIDATES for admission to the Freshman Class are required to take at least the Scholastic Aptitude Test of the College Entrance Examination Board. Full information concerning the dates of administering these tests can be obtained by writing directly to the College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey. If, in the opinion of the Committee on Admissions, it seems helpful to have additional information, the applicant may be asked to take additional achievement tests.

PREPARATION

A CANDIDATE for admission to the Freshman Class must be a graduate of an approved secondary school.

If the applicant is a graduate of a four-year high school he should offer for admission at least fifteen units which are to be distributed as follows:

BASIC ACADEMIC CREDITS (9 Units)

English, *Four years, Earning Three Units*

Elementary Algebra, *One Unit*

Plane Geometry, *One Unit*

Science, *One Unit*

Social Studies, *One Unit*

Foreign Language, *Two Units in One Language*

ADDITIONAL ACADEMIC CREDITS (*At least 2½ Units*)

Advanced Algebra
Solid Geometry
Plane Trigonometry
Science
Social Studies
Foreign Language

ELECTIVES (*Maximum 3½ Units*)

Not more than one unit will be granted for any single elective.

Bookkeeping
Drawing (Mechanical, Prepared Course)
Geology
Stenography
Junior Business Training
Music and Art (History or Appreciation)
Commercial Law
Commercial Geography

If the candidate is a graduate of a three-year high school, he should offer at least twelve units, which should include the basic credits above. Not more than one unit may be presented from the group designated as electives.

Applicants whose preparation does not coincide precisely with the foregoing outline may in exceptional cases be admitted to the College if, in the judgment of the Committee on Admissions, they are qualified to do college work satisfactorily.

ENGINEERING PROGRAM

ARRANGEMENTS have been made with the Massachusetts Institute of Technology and with the Engineering Schools of the University of Pennsylvania by which a student may transfer to either institution after completing three years of prescribed work toward the B.A. degree at Ursinus College.

The Engineering Schools of the University of Pennsylvania and the Massachusetts Institute of Technology may admit a student upon satisfactory completion of three years of prescribed work toward the B.A. degree at Ursinus College.

Ursinus College will grant the B.A. degree after the student has satisfied the requirements for that degree. The University of Pennsylvania and the Massachusetts Institute of Technology will grant the engineering degree on satisfactory completion of the fourth and fifth years. For the outline of the program see page 109.

The candidate for the Engineering program must present 3½ years of entrance credit in Mathematics.

His background in foreign language must be such that he will be capable of entering the *second* year of language in college. If he is not so prepared he must make up the deficiency in foreign language in summer school.

SPECIAL STUDENTS

A LIMITED NUMBER of applicants who are not candidates for degrees may be admitted as special students, provided that they have satisfactory preparation for the college courses which they wish to pursue. Special students who reside at the College must register for at least twelve hours of work in each semester. They are subject to the same regulations as other students.

TRANSFER STUDENTS

TO ENTER the Sophomore or Junior Class at Ursinus College, an applicant must support his application by requesting each institution he has attended subsequent to graduation from secondary school to send to the Director of Admissions a transcript of his record at the institution of higher learning and a letter from the Dean of Men or Women indicating that the applicant is entitled to honorable dismissal insofar as character and personality are concerned. It will be helpful if the candidate will send a catalogue of the college he has been attending, marked to indicate the course he has taken. No advanced standing will be granted to a transfer student unless his previous college record is free of failures and conditions. There will be no credit for grades below C.

Not more than sixty hours of work taken elsewhere will be credited to students transferring to Ursinus College.

PART-TIME STUDENTS

NON-RESIDENT STUDENTS who are candidates for a degree and who wish to pursue fewer than twelve hours of work may be classified as part-time students upon the written approval of the Dean of the College.

NOTIFICATION OF ADMISSION

WHEN A CANDIDATE for admission is notified of his acceptance by the College, he must make an advance payment of one hundred dollars in accordance with the provisions of the letter of acceptance. This payment is credited on his bill for the first term. If he fails to complete his matriculation, the payment is forfeited.

THE SUMMER SCHOOL

THE CURRICULUM of the Summer School is announced in the Spring and information concerning course offerings is available after April 15. Admission to Summer School is limited to students who are candidates for, or who have received degrees from, Ursinus College or other accredited institutions of higher learning. An applicant from another institution must submit written permission from the Dean of that institution authorizing him to enroll for a specific course or courses. Inquiries should be addressed to the Director of Admissions.

THE EVENING SCHOOL

THE EVENING SCHOOL is organized to make college work available to men and women employed in business, in industry, in teaching, and to others who may be interested. The program emphasizes courses in business administration and in fields closely allied to business administration, such as economics, political science, history, English composition, public speaking and certain foreign languages.

For information, catalogue, and application forms, address The Director, Evening School, Ursinus College, Collegeville, Pa.

TUITION EXCHANGE PROGRAM

URSINUS COLLEGE is a member of the Tuition Exchange. Requests of children of faculty members of other member institutions for tuition remission will be considered upon application. Because of the necessity for maintaining a balance of imports and exports, it may not always be possible to honor such requests. Applications for tuition remission should be made through the liaison officer of the institution with which the applicant's parent is associated. Those who receive aid through the Tuition Exchange Program are not eligible for additional grants.

PROGRAMS IN SPECIAL FIELDS

URSINUS is a college of liberal arts and sciences. This means that Ursinus emphasizes a broad, general education regardless of the career for which a student plans to prepare. At the same time, it is possible at Ursinus to prepare for specific careers in the fields listed below. A placement service maintained by the College helps the student to find a position in the field of his choice.

Business. Graduates in Business Administration find employment as accountants, secretaries, junior executives, sales managers. They are employed by many types of industrial concerns, banking institutions, public utilities, transportation companies, department stores, chain stores, etc. By electing Spanish, it is possible for students majoring in business to prepare for the growing opportunities in South American trade.

Chemical Research: Industrial Chemistry. The College provides opportunities for students desiring to major in Chemistry with a view to devoting their lives to some type of chemical research. Graduates find employment in the chemical industry doing pioneer work in the field of chemical research and development.

Dentistry. The Council on Dental Education of the American Dental Association fixes as the minimum basis for admission to an approved dental school the successful completion of two full years of academic work in an accredited college of liberal arts and science. This college work must include courses in English, biology, physics, inorganic and organic chemistry.

Educational Administration. Basic courses in Education are provided which are prerequisite to the professional courses in Educational Administration offered in graduate schools of education of leading universities.

Engineering. Students who wish to study Chemical, Civil, Electrical, Mechanical or Metallurgical Engineering may avail themselves of a program which is being offered at Ursinus College in cooperation with the University of Pennsylvania or the Massachusetts Institute of Technology. A student at Ursinus College may transfer to one of the Engineering Schools of the University of Pennsylvania or the Massachusetts Institute of Technology after completing three years of prescribed work toward the B.A. degree at Ursinus.

Ursinus College will grant the B.A. degree after the student has satisfied the requirements for that degree. The University of Pennsylvania or the

Massachusetts Institute of Technology will grant the Engineering degree upon completion of the fifth year.

Foreign Service. The American foreign service presents attractive opportunities to a limited number of young people who are willing to prepare themselves adequately for service abroad. The history and social science courses, together with offerings available in the modern languages, provide preparation for the examinations required of applicants for positions in foreign service. Upon graduation students are urged to pursue additional work at a recognized graduate school.

Graduate Study. One purpose of the curriculum of the modern liberal arts college is to prepare students for advanced study in various fields of knowledge. Preliminary study is done by the student at the under-graduate level in his chosen major field. Those intending to enter graduate schools should have a thorough grounding in their chosen field. As a reading knowledge of French and German is essential for most higher degrees, this knowledge should be acquired in the undergraduate school.

Health and Physical Education. It is possible to specialize in health and physical education and at the same time obtain a general cultural education. Health and physical education graduates meet the requirements for certification to teach in this field in Pennsylvania and other states.

Journalism. A student interested in journalism should enroll in the departments of history, political science, or English and elect widely in other fields. Following graduation from college a year at a professional school of journalism is recommended.

Laboratory Technology. It is possible to arrange for either a two-year or a four-year course of preparatory work, although the latter is strongly recommended as the preferred training.

Law. As a general rule leading law schools require a baccalaureate degree as one of the conditions for acceptance of candidates. A broad, cultural education is considered the best preparation for legal study.

Medicine. Concentration in biology or chemistry is recommended in order to prepare students who are interested in the various aspects of medicine. Preparation for schools of osteopathy and of veterinary medicine, as well as for the regular medical schools, is provided.

Music. Although a considerable number of courses in music are available at Ursinus, no major in music is offered. Those who wish to follow

music as a career should plan to attend graduate school after completing their work at Ursinus.

Nursing. Students who plan to enter the profession of nursing should register for courses in biology, chemistry, and liberal arts in order to qualify for consideration by schools of nursing.

Physical Research. A program of concentration in physics and mathematics is offered to students interested in physics as a career.

Psychology. Undergraduate work in psychology is designed for those who seek admission to graduate schools or who wish to enter personnel work in industry. Undergraduate study in psychology is of assistance in the fields of teaching, guidance, law, clinical psychology, personnel and social work, nursing, and preparation for medicine.

Teaching. Work in education, including practice teaching, as required by many of the state departments of education, is offered to those who plan a career in education. Teacher preparation is limited to the secondary school field. Students follow curricula under the guidance of advisers.

Theology and Religious Education. Most leading theological schools have as a requirement for consideration for admission a degree in liberal arts. Students who are preparing for the ministry should plan a broad course of study which will include history, languages, literature, and philosophy.

THE COLLEGE YEAR

THE COLLEGE year at present consists of two terms of sixteen weeks each and a Summer Term of eight weeks. Students are admitted to the College at the beginning of any term. Students who wish to do so may accelerate their college courses by attending the Summer Term in addition to the Fall and Spring Terms. The Summer Term is available to all students who wish to take advantage of it.



Expenses

RESIDENT STUDENTS *Charges Per Year*

Comprehensive Fee	\$1800 to \$1850
Activities Fee	\$ 20

NON-RESIDENT STUDENTS *Charges Per Year*

Tuition	\$1000
Activities Fee	\$ 20

PAYMENTS ARE TO BE MADE AS FOLLOWS:

New Students

Advance Payment	\$ 100
As indicated on bill	
Breakage Deposit	\$ 10

Old Students

July 15—Advance Payment	\$ 100
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All Students

September—As indicated on bill	
Comprehensive Fee less credit for advance payment	
Activities Fee	
January—As indicated on bill	
Comprehensive Fee	
Activities Fee	

When the student is a recipient of a scholarship award, credit will be applied in the amount of one-half the value of the annual award to each semester bill.

Charges quoted are on an annual basis. One-half of the annual charge is payable before September 15 and the balance before January 15. A \$10 fee is charged for late payment.

For those who prefer to pay tuition in monthly installments, the College offers special arrangements made with the Girard Trust Corn Exchange Bank of Philadelphia, and/or the Insured Tuition Payment Plan of Boston.

FEES

PRE-MATRICUATION FEE. A fee of \$10 is paid by the candidate at the time he files his application. *This fee is not refundable and is not applied toward the student's bill.*

Checks should be made payable to URSINUS COLLEGE.

SPECIAL AND PART-TIME STUDENTS are charged at the rate of \$37.50 *per semester hour*.

ADVANCE PAYMENT. (a) Upon his acceptance by the College an applicant must make an advance payment of \$100. This payment is credited on his bill for the first term. If he fails to complete his matriculation, this payment is forfeited. (b) All regularly enrolled students must make an advance payment of \$100 at such time as may be designated by the College. This payment is forfeited if the student fails to complete his registration.

COMPREHENSIVE FEE covers classroom instruction, tuition, use of laboratories, libraries, gymnasiums, and the infirmary; ordinary medical attention; care by the resident nurse; furnished room and board, exclusive of Christmas and Winter and Spring recesses. The variation in fee depends upon the location of the room.

The College reserves the right to make reasonable alterations in the comprehensive fee at the beginning of any term to cover possible unforeseen costs.

ACTIVITIES FEE covers subscription to the *Ursinus Weekly*, intercollegiate debating, the Christian Associations, the Ursinus College Forum, admission without charge to all athletic contests at the College, admission to Curtain Club plays and to College dances.

PRE-SESSION CAMP FOR WOMEN IN PHYSICAL EDUCATION. An instructional fee of \$65 is charged for attendance at the Pre-Session Physical Education Camp. The charge for room and board is \$55 for the period.

ROOM DRAWING. A previously enrolled woman student must pay \$10 in order to qualify for drawing a room. Credit will be applied on the bill for the first term.

PRIVATE MUSICAL INSTRUCTION. A fee of \$50 is charged for any student who wishes private individual instruction in organ, piano, violin, voice or any band or orchestral instrument. This is the charge for one half-hour lesson each week during the regular term.

BREAKAGE DEPOSIT. A deposit of \$10 is required of each new student to defray any expense incurred by injury to property and is included on the bill for the first term. The unexpended balance is returned upon graduation or withdrawal from College.

Checks should be made payable to URSINUS COLLEGE.

STUDENT TEACHING. An additional fee of \$50 is required of each student engaged in practice teaching. This is payable upon presentation of the bill.

GRADUATION FEE. A graduation fee of \$10 is charged each student on the last bill of his senior year.

TRANSCRIPT FEE. A charge of \$1 is made for each transcript of a student's record after the first. Requests for transcripts should be made to the Office of the Dean.

REGULATIONS

BILLS for the Comprehensive Fee are issued approximately thirty days before the beginning of each term. A student's bill must be settled no later than the date indicated on the statement.

No student who is indebted to the College or to any of its departments or agencies will be permitted to register at the beginning of any term, and all items due the College from a candidate for graduation must be paid before the candidate may be presented for a degree.

A student who is absent from College because of sickness, and retains his place in class, pays the Comprehensive Fee in full during his absence, except when the absence is continuous over a period exceeding four weeks, in which case resident students are allowed a rebate of \$5 for each full week on account of table board. No refund is allowed because of a student's dismissal or withdrawal from the College during a term, except when the student enters the armed services.

A student who voluntarily withdraws from College must notify the Dean and settle all bills within thirty days or be liable to dishonorable dismissal.

The possession or use of alcoholic beverages or firearms on the campus or in Collegeville is forbidden.

Freshman and Sophomore students are prohibited from having an automobile in Collegeville and vicinity during the academic year. Juniors and Seniors holding scholarships and positions under the Bureau of Student Employment are similarly restricted.

If a woman student marries, she at once forfeits her membership in the College. She may, however, apply for readmission.

The College reserves the right to exclude at any time students whose conduct or academic standing renders them undesirable members of the college community, and in such cases the fees due or paid in advance to the College will not be refunded in whole or in part.

Checks should be made payable to URSINUS COLLEGE.



General Information

ROOMS AND MEALS

URSINUS COLLEGE is a community and pleasant community life is emphasized. Students who are not living in their own homes are required to room at the College and to take their meals in the College dining rooms.

Each resident student supplies his own towels, two pairs of sheets for a single bed, mattress protector, a pair of pillow cases (38" x 45"), a pair of blankets, and a bedspread. Linen rental service is available.

First-year students, except those whose presence is needed for service, are required to vacate their rooms immediately following the second-term examinations.

PUBLIC WORSHIP

ALL RESIDENT students and all day students whose homes are within a mile of the campus are required to attend religious services in the College chapel on certain designated days of each week. Students may not be absent from chapel services more than three times in a semester without valid excuse. Students are encouraged to attend services on Sunday in the church of their own choice.

ABSENCES

STUDENTS are expected to attend all meetings of the classes in which they are enrolled and to take all tests and examinations on the announced days.

A student's absences in any course must not exceed twice the number of meetings per week in that course. This regulation is designed to allow for cases of illness, the death of a relative, or duty away from the College as a representative of the institution, and, in the case of a day student, transportation difficulties.

If a student has exceeded the number of allowed absences he may be dropped from the course by the Dean after consultation with the instructor and the student's adviser. If a student is dropped for over-cutting, he will be assigned a grade of F in that course. If he is allowed to continue, he must make up the work missed and pay the required fees for permits and re-examinations.

Three latenesses are counted as the equivalent of one absence. Absences directly preceding and following a holiday are counted double.

A third-year or fourth-year student whose grades in the term immediately preceding include at least one A and no grade lower than B is placed on his own responsibility for attendance at classes.

GRADES OF SCHOLARSHIP

WHEN A COURSE has been completed, the standing of the student is expressed, according to his proficiency, by one of five grades, A, B, C, D, or F. Letter A denotes grades between 100% and 90%, B between 90% and 80%, C between 80% and 70%, D between 70% and 60%, and F denotes 45%. Any grade of less than 60% denotes a failure in the course. Students who have received passing grades are not permitted to take re-examinations for the purpose of raising their grades.

The Mark I, which may be given only with the written permission of the Dean, is reserved for cases of incomplete work or of failure under extenuating circumstances. When the removal of the mark I requires an examination, a fee of ten dollars (\$10.00) will be charged. If the mark of I is not removed within one month after the beginning of the following regular term, the grade of F will be assigned for the course.

A student is required to have an average of 70% at the end of each term in College. A student who fails to do so will be restricted in his extra-curricular activities, declared ineligible, and reported to the Faculty.

A student whose average at the end of the first term or second term is below 65%, whose cumulative average is below 65% at the end of the first year, or whose cumulative average is below 70% at the end of the third term or thereafter will be dropped from the College unless, as a result of mitigating circumstances, the Faculty votes that he be permitted to continue. The action of the Faculty in all such cases is final.

Employment under the Bureau of Student Employment, or participation in intercollegiate athletics or other intercollegiate activities is not allowed to a student whose average for the preceding term is below 70%. A student under discipline may be barred by the Committee on Discipline from all extra-curricular activities.

A permanent record is kept of each student's work, a copy of which is sent to his parent or guardian at the close of each term. The standing of first-year students is reported also at mid-term. Through correspondence and conferences, the cooperation of parents is sought in the endeavor to obtain the best possible results in the work of students.

DEGREES

URSINUS COLLEGE confers two degrees in course: Bachelor of Arts and Bachelor of Science. For specific requirements of the curricula leading to

each of these degrees, see pages 104 to 109. Degrees are conferred only at convocations and *candidates must present themselves in person*.

The College may confer the honorary degrees of Doctor of Divinity, Doctor of Pedagogy, Doctor of Science, Doctor of Letters, and Doctor of Laws on persons whose distinguished ability and service have been deemed worthy of such recognition by the Faculty and the Board of Directors.

HONORS

COMMENCEMENT

Two Commencement honors are assigned: one, the Valedictory, to the person attaining the highest standing in the graduating class; the other, the Salutatory, to the person attaining the next highest standing.

GRADUATION WITH DISTINCTION

Members of the graduating class who have shown great proficiency in their entire course may be graduated with distinction if, in the opinion of the Faculty, their attainments warrant such honors. These distinctions, *Summa Cum Laude*, *Magna Cum Laude*, and *Cum Laude*, are given only for unusual excellence in all the subjects pursued by the candidate.

DEPARTMENT HONORS

Students may be graduated with special honors in departments of study in which they have shown exceptional proficiency, and in which they have done extra work.

1. A candidate for Department Honors must have the endorsement of the professor in charge of the department in which he expects to try for such honors, and must enroll as a candidate at the Dean's office at least eight months prior to the anticipated date of graduation.

2. A student must maintain a grade not lower than C in any course pursued after the first year and must maintain an average of B while he is pursuing his work as a candidate for Department Honors.

3. A candidate must complete an amount of work equivalent to three semester hours in the department in which he intends to try for honors in addition to the full number of semester hours prescribed for graduation. At least twelve semester hours must be in the subject in which he is registered for Department Honors. He must submit to the Faculty a thesis on some subject within the field represented by his extra work. The thesis must be deposited in the Office of the Dean by May 1 preceding the convocation when the honors are to be awarded.

MEDICAL SERVICE

THE COMPREHENSIVE FEE paid by resident students entitles them to ordinary medical attention. The College Physician may be consulted in his office on the campus during office hours. He will regularly visit patients in the infirmaries. During the regular College sessions the resident nurses are on duty twenty-four hours a day. They care for the sick under the direction of the College Physician.

The College will not pay bills that students contract with hospitals or with physicians or nurses not on the staff of the College. The College reserves the right to enforce quarantine and to engage the services of special attendants if necessary, but will not be responsible for the compensation of extra physicians, nurses, or attendants, which compensation must be provided by the student or his parent or guardian.

PRE-SESSION CAMP FOR WOMEN IN PHYSICAL EDUCATION

A CAMP is available on an optional basis for sophomore, junior, and senior women who are majoring in Physical Education. The camp is operated during a period of two weeks immediately preceding the opening of the fall term. Class instruction by regular members of the staff normally includes work in archery, canoeing, hockey, horseback riding, officiating, swimming, life-saving, and tennis. The time spent in camp activities will be deducted from the hours required in Physical Education activities, Courses 303 to 308, during the college year. *See page 40.*

Scholarships, Prizes, and Aid to Students

FULL TUITION SCHOLARSHIPS

THERE ARE eight Open Scholarships, each having a potential value of \$4000, available to the entering Freshman Class in September. The Open Scholarships are competitive, provide full tuition to the recipients, and are tenable for four years, provided that the holder's conduct and scholastic work remain satisfactory. All scholarships are subject to yearly review.

Candidates for Open Scholarships must take the Scholastic Aptitude Test and three sub-tests of the Scholastic Achievement Tests (one of which must be in English) in the December, January, February or March series of the College Entrance Examination Board.

Application for Open Scholarships must be filed by March 1.

OTHER FINANCIAL GRANTS

MANY ENDOWED financial grants, each having a potential value of from \$200 to \$2400 for four years, are awarded on the basis of financial need. Each grant is tenable for four years provided that the holder's conduct and scholastic work remain satisfactory. All financial grants are subject to yearly review.

Scholarship application forms may be obtained from the Director of Admissions. Applicants for both types of aid are required to fill out the College Scholarship Service Statement, indicating financial status.

Applications for financial grants must be filed by March 1.

BUREAU OF STUDENT EMPLOYMENT

THE BUREAU, conducted under the management of officers of the College, provides opportunities for students to earn a part of their expenses by working as waiters, laboratory assistants, library assistants, typists, and clerks in the Supply Store. These positions are standardized so as not to overburden the student or to interfere with his studies. Positions accepted under the Bureau of Student Employment must, however, always take precedence over any other extra-curricular activities. A standard position, such as a waitership in the dining room, pays three hundred and ten dollars per year. Approximately one hundred and fifty positions, representing varying amounts of compensation and types of work, are now open to students.

Students who agree to perform a specific task, such as serving in the dining rooms, have their accounts credited in advance of their work. Those who work by the hour, however, have their accounts credited at the end of their term of work. Inasmuch as bills for the Spring Term are prepared and mailed before the end of the Fall Term, students who work by the hour must all have their bills adjusted at the opening of the Spring Term.

Letters of application, as well as those requesting information, should be addressed to the Director of Student Employment.

PLACEMENT BUREAU

URSINUS COLLEGE conducts a placement bureau to assist students and graduates in finding positions for which they qualify. Its function is to serve as a point of contact for seniors and alumni with educational institutions, business, and industry. Detailed personal and scholastic records of seniors and alumni are compiled and are available along with a photograph, for all prospective employers.

ALUMNI PLACEMENT — The Placement Bureau acts as a clearing house for the placement of alumni seeking employment or new positions. Alumni are encouraged to place their names on the list of available candidates. A fee of \$1.00 is charged for alumni registrations.

Persons seeking placement in the educational field or in business or industry should address communications to the Director of Placement, Ursinus College, Collegeville, Pa.

LOAN FUNDS

PERMANENT FUNDS have been established to provide loans to third-year and fourth-year students. Applications for loans should be addressed to the Director of Admissions.

PRIZES

THE PHILIP H. FOGEL MEMORIAL PRIZE

The Philip H. Fogel Memorial Prize of \$25 is awarded each year to the member of the Senior Class who has done the best work in the Department of Religion. The prize has been endowed by Mrs. Edwin J. Fogel in memory of her son, Philip H. Fogel, Ph.D., Class of 1901.

THE EDWIN M. FOGEL PRIZE

The Edwin M. Fogel Prize of \$25 is awarded each year to the student who, under the direction of the Department of History and the Department of German, submits the best essay on the contribution of the Pennsylvania Germans to American life and culture. The prize has been endowed by Edwin M. Fogel, Class of 1894.

THE DUTTERA PRIZE

A prize consisting of the income of \$500 contributed by Mrs. Amos Dutterra of Taneytown, Maryland, is awarded each year to the student attaining the highest standing in the study of church history (Religion, Course 6).

THE PETERS PRIZE

The Rev. Dr. and Mrs. Morgan A. Peters Memorial Prize of \$50, established under the will of Emma Jane Peters, is awarded each year to a man in the Senior Class for excellence in the study of the Bible.

THE PAISLEY PRIZES

Two prizes of \$25 each for the best dissertations on an assigned topic by members of the Senior Class, one open to men, the other open to women, have been endowed by Mr. and Mrs. H. E. Paisley, of Philadelphia. These prizes are offered to encourage students in the thoughtful application of the principles of Christianity to problems of practical life. The awards are made each year.

THE ELIZABETH ROCKEFELLER MCCAIN PRIZE

A prize of \$50 has been endowed by the late George Nox McCain, Litt.D., of Philadelphia, as a memorial to his mother, Elizabeth Rockefeller McCain. This prize is awarded each year to the student who at the end of the second year has shown the greatest ability in the knowledge and use of the English language as indicated by work in composition and literature.

THE BOESHORE PRIZES

Two prizes of \$25 each, endowed by Mr. and Mrs. Miller H. Boeshore of Philadelphia, one open to men, the other to women, are awarded each year to those students who have attained the highest standing at the end of the first year in the study of Greek.

THE EHRET PRIZE

A prize consisting of the income of \$500, established under the will of the Rev. Harry J. Ehret, '00, D.D., in memory of his son, Robley W. Ehret, '39, is awarded each year to a student who has excelled in athletics.

THE RONALD C. KICHLINE ATHLETIC PRIZE

A prize consisting of the income of \$1,000, established under the will of Ronald C. Kichline, '16, is awarded each year to a senior who has excelled in athletics.

THE ROBERT TRUCKSESS PRIZE

A prize of \$50, offered by the Ursinus Women's Club, is awarded each year to the young woman who has attained the highest distinction in athletics.

THE URSINUS CIRCLE PRIZE

A prize of \$25, offered by the Ursinus Circle, is awarded each year to the student who has written the best pageant under the auspices of the Department of Public Speaking.

THE ELLEN BEAVER SCHLAYBACH MEMORIAL PRIZE

A prize of \$15, offered by the Omega Chi Sorority, is awarded each year to the woman of the Senior Class who has attained the highest scholastic average at the completion of her four years. This prize is offered in memory of one of the Sorority's former presidents, Ellen Beaver Schlaybach, Class of 1938.

THE GEORGE DITTER PRIZE

The George Ditter Prize of \$25 is awarded each year to that member of the graduating class whose work in the Departments of History and Political Science gives promise of contributing most to the perpetuation of democratic self-government. The prize was established by George Ditter's son, the Honorable J. William Ditter, LL.D., and continued by George Ditter's grandchildren, Miss Mabel B. Ditter, Class of 1939, and Mr. J. William Ditter, Jr., Class of 1943.

THE WHITIAN PRIZE

The Whitians, the honor society for women, have established a prize to be awarded each year to the woman student who at the end of the first year has the highest scholastic standing.

THE ELIZABETH B. WHITE PRIZE

A prize of \$25 is awarded each year to the woman in the Senior Class who has chosen History as her major subject and who, in the judgment of the Department of History, gives greatest promise of successful continuance in that field or in social welfare work. This prize was established by Dr. Elizabeth B. White, Emeritus Professor of History.

THE J. HAROLD BROWNBAC PRIZE

A prize of \$25 is awarded each year to a member of the Senior Class for outstanding achievement in scholarship and in extracurricular activities. This award was established by Mrs. Paul L. Doughty (Mary C. French Doughty, Class of 1952).

PERMANENT SCHOLARSHIP FUNDS

THE COLLEGE possesses a number of permanent scholarship funds. The income of each fund is assigned annually to a student designated by the College. The list of these scholarships is as follows:

<i>The John Alexander Scholarship</i> , founded by John Alexander, D.D., of St. Louis, Missouri, in appreciation of benefits enjoyed when a student in the College,	\$1,000.00
<i>The Alumni Memorial Scholarships</i> , founded by the gifts of alumni and friends, in memory of the Ursinus men who gave their lives in the service of their country, 1941-45,	102,335.53
<i>The Appel Memorial Scholarship</i> , founded under the will of the Rev. Richard S. Appel, D.D., as a memorial to his son, Robert S. Appel, A.B., '01,	2,000.00
<i>The Aspden Memorial Scholarship</i> , founded by Newton J. Aspden, of Trinity Reformed Church, Philadelphia, in memory of his beloved wife, Levinah Erb Aspden,	5,000.00
<i>The Bahner Scholarship</i> , founded in 1919 by the members of Trinity Reformed Church, Waynesboro, Pa., in honor of the Rev. Franklin F. Bahner, D.D., '73, and his wife, Mary Ella Bahner, on their completion of forty-two years of devoted service in the pastorate of the Waynesboro charge,	1,000.00
<i>The F. Kline Baker Scholarship</i> , founded under the will of F. Kline Baker, of Philadelphia, in memory of his wife, Helen Baker,	2,000.00
<i>The Beck Scholarship</i> , founded by the Rev. Samuel W. Beck, of Littlestown, Pa., in appreciation of the scholarships awarded to his four daughters, the income to provide scholarships for girls who plan to teach,	1,000.00
<i>The Augustus Behney Scholarship</i> , founded by Charles A. Behney, M.D., '12, in memory of his father,	3,500.00
<i>The Valeria Behney Scholarship</i> , founded by Charles A. Behney, M.D., '12, in memory of his mother,	3,550.00
<i>The Bethany Tabernacle Scholarship</i> , founded by the congregation of Bethany Tabernacle Reformed Church, Philadelphia, the Rev. H. H. Hartman, '94, pastor,	2,000.00
<i>The J. William Bireley Scholarship</i> , founded by J. William Bireley of Frederick City, Md.,	1,000.00
<i>The Wayne Brown Memorial Scholarship Fund</i> , established by friends of Wayne A. Brown, '17, the income to be awarded to deserving students who	

have demonstrated qualities of leadership in the classroom and on the athletic field,	4,550.00
<i>The Anna M. Bomberger Scholarship</i> , founded by Anna M. Bomberger, with gifts amounting to \$600 and completed by Mrs. H. S. Bomberger, both of Lancaster, Pa.,	1,000.00
<i>The John Brownback Memorial Scholarship</i> , founded by Melinda M. Acker and Mary M. Brownback, of Uwchland, Chester County, Pa., in memory of their father,	1,000.00
<i>The Mary M. Brownback Scholarship</i> , founded under the will of Mary M. Brownback, of Uwchland, Chester County, Pa.,	1,000.00
<i>The Carson Scholarship</i> , founded under the will of Captain John Carson, of Newburg, Cumberland County, Pa.,	1,000.00
<i>The Christ Church, Hellertown, Scholarship</i> , founded by the congregation of Christ Evangelical and Reformed Church, Hellertown, Pa., the Rev. Adam E. Schellhase, '18, pastor,	1,000.00
<i>The Class of 1911 Scholarship</i> , founded by the Class of 1911,	1,465.50
<i>The John H. Converse Scholarship</i> , founded by John H. Converse, of Philadelphia,	1,000.00
<i>The Cub and Key Scholarship</i> , founded by <i>The Cub and Key Society</i> ,	3,451.76
<i>The Deitz Scholarship</i> , founded by Gilbert A. Deitz, '18 and Purd E. Deitz, '18, in memory of Martha E. Deitz and Mattie A. Deitz,	1,000.00
<i>The Barnabas Devitt Scholarship</i>	1,000.00
<i>The Elsie Devitt Scholarship</i>	1,000.00
<i>The Emma Mayberry Devitt Scholarship</i>	1,000.00
The Devitt Scholarships were founded under the will of Emma Devitt of Philadelphia, Pa.,	
<i>The Doll Family Scholarship</i> , founded by George Doll, Adaline Doll, and Josephine Doll of Philadelphia,	2,037.92
<i>The Charles and Elizabeth Drumm Scholarship</i> , founded by Charles Drumm, of Philadelphia, Pa.,	4,000.00
<i>The Eastwick Scholarships</i> , founded by Joseph Lees Eastwick, I.L.D.,	25,500.00
<i>The Erb Scholarship</i> , founded by the Rev. William H. Erb, '93, and Andora Erb,	2,000.00
<i>The Fetterolf Memorial Scholarship</i> , founded under the will of Abraham D. Fetterolf, of Collegeville, Pa.,	2,000.00
<i>The John B. and Horace A. Feters Scholarship</i> , founded under the will of Mary M. Brownback, of Uwchland, Chester County, Pa.,	1,000.00
<i>The John B. Feters Memorial Scholarship</i> , founded by Rebecca B. Feters, of Uwchland, Chester County, Pa., in memory of her son, who died after a week's attendance at College in September, 1885,	1,000.00
<i>The Alice L. and William D. Fox Scholarship</i> , founded under the will of Alice L. Fox, of Lebanon, Pa.,	1,000.00

<i>The Alice R. Fox Memorial Scholarship for Girls</i> , founded under the will of David R. Rohrbach, '07,	11,854.16
<i>The Henry Francis Scholarship</i> , founded by Henry Francis, of Spring City, Pa.,	1,000.00
<i>The Elizabeth Frey Scholarship</i> , founded by gift of Elizabeth Frey, of Stewartstown, Pa.,	11,500.00
<i>The Alfred Gemmell Scholarship</i> , founded in memory of Alfred Gemmell, '39 (1916-1957),	1,522.41
<i>The General Scholarship Fund</i> , founded by the gifts of alumni and friends of Ursinus College,	4,976.05
<i>The Anna High Godshalk Scholarship</i> , founded in memory of Anna High Godshalk, '20 (by her husband, Ralph L. Godshalk),	3,000.00
<i>The Grace Church Scholarship</i> , founded by Milton Warner and Wilson H. Lear, of Grace Reformed Church, Philadelphia, Pa.,	1,000.00
<i>The Haines Scholarship</i> , founded by Charles Grove Haines, '03, and Bertha Moser Haines, '02,	1,749.83
<i>The Heidelberg Scholarship</i> , founded by a member of Heidelberg Reformed Church, York, Pa.,	1,000.00
<i>The Nora Shuler Helfferich Scholarship</i> , founded to honor Nora Shuler Helfferich, '93, by her daughter-in-law, Anna Knauer Helfferich, '20, the income to be awarded to needy and deserving women students	8,649.72
<i>The William Ursinus Helfferich Scholarship</i> , founded by Christ Reformed Church, Bath, Pa., on the twenty-fifth anniversary of the ministry of their pastor, and increased by later gifts.	1,500.00
<i>The William A. Helfferich Scholarship</i> , founded by the Rev. W. A. Helfferich, D.D., of Fogelsville, Pa.,	1,000.00
<i>The George W. and Francis R. Hench Scholarship</i> , founded by the Rev. S.M. Hench, D.D., of Trappe, Pa., in memory of his parents,	1,500.00
<i>The Mattie B. Hench Scholarship</i> , founded by Mrs. Mattie B. Hench of Trappe, Pa.,	1,200.00
<i>The Joseph H. Hendricks Memorial Scholarship</i> , founded in memory of the Rev. Joseph H. Hendricks, D.D., for forty-three years (1862-1905) pastor of Trinity Church, Collegeville, and for eighteen years (1887-1905) a Director of Ursinus College, by his friend, Jacob P. Buckwalter, of Macon, Georgia,	5,000.00
<i>The Hilltown Scholarship</i> , founded by the Hilltown and Dublin charge of the Reformed Church in the United States, Bucks County, Pa.,	1,000.00
<i>The Freeland G. Hobson Scholarship</i> , founded under the will of Freeland G. Hobson, LL.D., '76, of Collegeville,	1,000.00
<i>The Joseph and Enoch Isenberg Scholarship</i> , founded by Dorothy Isenberg, of Hollidaysburg, Pa.,	1,000.00

<i>The Mary E. and James M. S. Isenberg Scholarship</i> , founded by Paul H. Isenberg, '21, Lillian Isenberg Bahney, '23, and Helen Isenberg Ballantyne, '24, in memory of their parents,	1,495.00
<i>The Jefferson Medical College Scholarship</i> , founded by Lewis Cass Scheffey, M.D., Sc.D., to aid students who plan to enter Jefferson Medical College,	4,400.00
<i>The Saint John's, Orwigsburg, Scholarship</i> , founded by the congregation of Saint John's Reformed Church, Orwigsburg, Pa., the Rev. D. R. Krebs, D.D., '02, pastor,	1,000.00
<i>The Johnson Scholarship</i> , founded in memory of J. Howard Johnson, '94, and his wife, Myra, by Mrs. Ella J. Johnson,	500.00
<i>The Keeley Scholarship</i> , founded by Joseph Keely, of Spring City, Pa.,	1,000.00
<i>The Kelker Scholarship</i> , founded by Rudolph F. Kelker, of Harrisburg, Pa.,	1,000.00
<i>The J. Edward Klingaman Scholarship</i> , founded by the Rev. J. Edward Klingaman of Winchester, Va.,	1,000.00
<i>The Francis Kready Scholarship</i> , founded by Francis Kready, of Lancaster Pa.,	2,000.00
<i>The Rev. Dallas R. Krebs, D.D., and Mrs. Bessie M. Hoffman Krebs Scholarship</i> , for the aid of a ministerial student, founded under the will of Bessie M. Hoffman Krebs,	798.10
<i>The Franklin W. Kremer Memorial Scholarship</i> , founded by the Rev. F. W. Kremer, D.D., with gifts amounting to \$500, and completed by the Sunday School of the First Reformed Church, of Lebanon, Pa., in grateful memory of his thirty-eight years' pastorate,	1,000.00
<i>The LeRoy Boyer Laubach Scholarship</i> , founded in memory of LeRoy Boyer Laubach by his mother, Mrs. M. B. Laubach, of Philadelphia, Pa.,	2,000.00
<i>The Leinbach Scholarship</i> , founded by Irwin S. Leinbach, '29, M.D., Sc.D.,	3,200.00
<i>The Sarah J. Leiphart Scholarship</i> , founded under the will of Sarah J. Leiphart, of York, Pa.,	9,842.81
<i>The Longacre Scholarship</i> , founded by Walter Force Longacre, Class of 1914, in memory of his parents, Emanuel Longacre, member of the Board of Directors of Ursinus College from 1869 to 1894, and his wife, Caroline Everhart Force, whose eight children attended Ursinus Academy, and three of whose children were graduated from Ursinus College.	5,300.00
<i>The Francis Magee Scholarship</i> , founded by the late Francis Magee, of Philadelphia,	1,000.00
<i>The Aaron E. March Scholarship</i> , founded by Aaron E. March, of York Pa.,	2,000.00
<i>The Markley Scholarship</i> , founded by Dr. Mary E. Markley, '02, in memory of her father, the Rev. A. B. Markley, D.D., '76,	4,500.00

<i>The Saint Mark's Scholarship</i> , founded in 1918 by the members of Saint Mark's Reformed Church, Lebanon, Pa., in honor of their pastor, the Rev. I. Calvin Fisher, D.D., '89, and his wife, Eva S. Fisher, and in celebration of their twenty-fifth anniversary in the pastorate of Saint Mark's Church	1,000.00
<i>The James W. Meminger Scholarship</i> , founded by the congregation of Saint Paul's Reformed Church, Lancaster, Pa., in honor of the Rev. James W. Meminger, D.D., '84, former pastor,	1,000.00
<i>The Meyran Scholarship</i> , founded by Louis A. Meyran and his wife, Marie H. Meyran, of Grace Reformed Church, Pittsburgh, Pa.	2,000.00
<i>The Miller Scholarship</i> , founded by Elmer E. and Erma Miller Steinbrunn, of Orwigsburg, Pa., in memory of Mrs. Steinbrunn's parents, Alfred M. and Pauline Miller,	1,000.00
<i>The D. Charles Murtha Scholarships</i> , founded under the will of D. Charles Murtha, '86,	19,949.32
<i>The Annie Neff Scholarship</i> , founded under the will of Annie Neff, of Alexandria, Huntingdon County, Pa.,	1,500.00
<i>The Martin B. Neff Scholarship</i> , founded by Annie Neff in memory of Martin B. Neff, of Alexandria, Pa., and in recognition of his life-long interest in Ursinus College,	1,800.00
<i>The Caroline E. Loudon Niblo Scholarship</i> , founded under the will of James Martin Niblo, D.D.,	5,000.00
<i>The Noss Scholarship</i> , founded by Charles H. Noss, of York, Pa., in memory of his parents, William S. Noss and Emma S. Noss,	15,000.00
<i>The George Leslie Omwake Scholarships</i> , founded by several hundred alumni and other friends of the sixth president of Ursinus College,	100,070.00
<i>The Omwake Memorial Scholarship</i> , founded by W. T. Omwake, Esq., of Waynesboro, Pa., as a memorial to his parents, Henry and Eveline Beaver Omwake,	2,000.00
<i>The Paisley Scholarship</i> , founded in honor of Mrs. Carrie Strassburger Paisley, of Trinity Reformed Church, Philadelphia,	2,000.00
<i>The Harry E. Paisley Scholarship</i> , founded by Harry E. Paisley, LL.D., of Trinity Reformed Church, Philadelphia,	5,000.00
<i>The John and Margaret Paisley Scholarship</i> , founded by John and Margaret Paisley, of Garden City, Long Island, N. Y.,	6,000.00
<i>The Saint Paul's, Lancaster, Scholarship</i> , founded by the congregation of Saint Paul's Reformed Church, Lancaster, Pa., the Rev. T. A. Alspach, D.D., '07, pastor,	2,000.00
<i>The Pascucci Scholarship</i> , founded by the Class of 1952 in memory of Eugene Anthony Pascucci, '52 (1928-1954),	1,722.05
<i>The Pennsylvania Female College Memorial Scholarship</i> , founded by the Glenwood Association, a body of former students of the Pennsylvania Female College, in recognition of the earlier work done at Collegeville for the higher education of women,	3,000.00

<i>The Neri F. and Serena J. Peters Scholarship</i> , founded in memory of the Rev. and Mrs. Neri F. Peters by their children,	2,000.00
<i>The Raynor-Fetterolf Scholarships</i> , founded by Alves L. Raynor and his wife, Helen Miller Raynor, '11, in memory of their son, Eugene Richard Raynor (1926-1940),	55,847.77
<i>The Ritter Scholarship</i> , established by R. A. Ritter, LL.D., of Wyncote, Pa.,	10,000.00
<i>The Jesse W. Roberts Memorial Scholarship</i> , founded by Charles V. Roberts, '32, in memory of his father,	10,514.25
<i>The Silas H. Rush Scholarship</i> , founded in memory of her parents, Mr. and Mrs. Silas H. Rush, by Mrs. E. R. Hoffman, of Philadelphia,	1,000.00
<i>The Scheer Memorial Scholarship</i> , founded under the will of Thekla Ida Scheer, in memory of her father, the Rev. George A. Scheer, D.D., '76, the income to be used to aid students who plan to enter the Christian ministry,	5,000.00
<i>The Jacob S. and Lucinda Schwartz Scholarship</i> , founded by the bequest of Jacob S. Schwartz, of Hanover, Pa.,	1,000.00
<i>The Schwenksville Community Scholarship</i> , founded by the citizens of Schwenksville, Pa.	1,927.00
<i>The Jocelyn Xander Sheeder Scholarship</i> , established by the late S. Elizabeth Xander, of Philadelphia, Pa.,	1,000.00
<i>The J. B. Shontz Memorial Scholarship</i> , founded by the Congregation and Sunday School of Saint John's Reformed Church, Chambersburg, Pa., in memory of their former pastor, the late Rev. J. B. Shontz,	1,000.00
<i>The A. Lizzie Shreiner Scholarship</i> , founded under the will of A. Lizzie Shreiner, of Lancaster, Pa.,	1,350.00
<i>The Siebert Scholarship</i> , founded under the will of P. W. Siebert, of Pittsburgh, Pa.,	1,004.00
<i>The Sigma Rho Lambda Fraternity Scholarship</i> ,	2,706.85
<i>The George S. Sorber Scholarship</i> , founded by the Rev. George S. Sorber, D.D., of York, Pa.,	2,000.00
<i>The Nathan Spangler Scholarship</i> , founded by Nathan Spangler, of York, Pa.,	1,000.00
<i>The Sprankle Scholarship</i> , founded under the will of Samuel Sprankle, of Altoona, Pa.,	2,000.00
<i>The Stauffer Memorial Scholarship</i> , founded in memory of Robert Ursinus and John Donald Stauffer, deceased children of the Rev. J. J. Stauffer, by gifts amounting to \$500 from the pastor and members of the Lykens Valley charge, and completed by a bequest of \$500 under the will of Elizabeth Ritzman, of Gratz, Pa.,	1,000.00
<i>The Stauffer Scholarship</i> , founded by the Rev. George A. Stauffer, '94, and Laura M. Stauffer, Lancaster, Pa.	7,217.11
<i>The Harold D. and Edith C. Steinbright Scholarship</i> , founded by Dr. and Mrs. Harold D. Steinbright, of Norristown, Pa.	15,555.00

<i>The Clementina R. Stewart Scholarship</i> , founded under the will of Clementina R. Stewart, of Myerstown, Pa.,	1,000.00
<i>The Stoudt Scholarship Fund</i> , founded in memory of the Rev. John K. Stoudt, D.D., by his wife, Mrs. John K. Stoudt, and by his children, Mark R. Stoudt, '36, and Mary Helen Burkey, '39,	1,000.00
<i>The G. Leicester Thomas Scholarship</i> , founded by G. Leicester Thomas, of Adamstown, Md.,	9,800.00
<i>The Trinity Bible School Scholarship</i> , founded by the Bible School of Trinity Reformed Church, Philadelphia,	2,880.30
<i>The Trumbower Memorial Scholarship</i> , founded by Mr. H. C. Trumbower, of Trinity Reformed Church, Philadelphia, in memory of his parents, Dr. Lewis T. and Annie B. Troxel Trumbower,	5,000.00
<i>The Vance Scholarship</i> , founded by the Class of 1949 in memory of John Robert Vance, '49 (1925-1954),	1,832.00
<i>The Abraham Wagner Scholarship</i> , founded under the will of Abraham Wagner, of the Robinson Church, Berks County, Pa.,	1,000.00
<i>The George A. Walker Scholarship</i> , founded under the will of George A. Walker, of Philadelphia, Pa.,	10,000.00
<i>The Wehr Scholarships</i> , founded in honor of the Rev. Calvin P. Wehr, D.D., '95, and Agnes E. Wehr, by their daughter, Florence A. Wehr,	13,000.00
<i>The John Wiest Scholarship</i> , founded in memory of John Wiest, a member of the original Board of Directors of Ursinus College, by his son, Howard M. Wiest, '92,	5,100.00
<i>The George Wolff Scholarship</i> , founded by the Rev. George Wolff, D.D., of Myerstown, Pa.,	1,000.00
<i>The Young Scholarships</i> , founded under the will of Mary Lantz Young, of Philadelphia, Pa.	16,000.00
<i>The Dr. and Mrs. Isaac Zyner Memorial Scholarship</i> , founded under the will of Jennie H. H. Wieder Zyner,	30,230.34



The Educational Program

THE DEPARTMENTAL SYSTEM is employed in the organization and administration of instruction. By this system, the courses of instruction are offered in thirteen departments: Biology, Chemistry, Classics, Economics and Business Administration, English, German, Health and Physical Education, History, Mathematics, Physics, Political Science, Psychology, Romance Languages. The adviser is the medium of communication between the Faculty and students of his department. The approval of the adviser is necessary before a student may register for or enter upon any course of study, or discontinue any work.

A student, at matriculation, chooses the subject of major concentration he desires to pursue, and with the advice and consent of the adviser selects his studies for the year and reports his selection to the Dean on a blank provided for the purpose. A student who is uncertain as to his future plans, and therefore undecided as to his major field, may choose to be registered in an "undesigned major" for the first year.

CHOICE OF STUDIES

THE WORK of every student is composed of three parts: (1) courses which are, in the judgment of the Faculty, essential to a liberal education and are required of all students before graduation; (2) courses required by the department in which the student is registered, and which comprise his major field of concentration; (3) elective courses chosen by the student as a means of further individualizing his course of study, and adapting it to his own intellectual tastes and future purposes.

REGISTRATION

ALL STUDENTS must register at the beginning of the Fall Term for the work of the Fall and Spring Terms. Changes in course of study may be made during the first week of a term with the written approval of the adviser. After the first week, courses may be added or dropped only by joint permission of the Dean, the adviser, and the instructors involved. A student who withdraws from a course without such permission will receive the grade of F. A fee of one dollar is charged for the registration of students on days other than those appointed in the College Calendar.

In registering, the student must present to his department adviser his complete list of studies, both prescribed and elective, for the *whole year*. Courses prescribed as degree or departmental requirements or to satisfy

conditions must take precedence over and be scheduled before elective courses. When a student changes to another department, he must fulfill the requirements of that department in order to be graduated.

REQUIREMENTS FOR GRADUATION

THE REQUIREMENT for the degree of Bachelor of Arts or Bachelor of Science is the completion of one hundred and twenty semester hours which must include all the courses required by the Faculty of all students for graduation and the courses required by the department to which the student belongs. At least sixty semester hours of this work must be completed at Ursinus College, and this must include the work of the senior years.

A regular student may not take in any one term fewer than twelve semester hours of work. The normal maximum for a term is five courses or fifteen semester hours. Two semester hours above the normal maximum may be scheduled with the approval of the adviser, provided the student's average for the preceding term is eighty or higher. Three semester hours above the normal maximum may be scheduled for the preceding approval of the adviser, provided the student's average for the preceding term is eighty-five or higher (*Exception:* Engineering and Physical Education majors are permitted to schedule in each term three hours more than the normal maximum).

All fourth-year students shall enroll as full-time students. They must carry a minimum load of fourteen (14) semester hours in each of the last two semesters.

PRESCRIBED COURSES (REQUIRED OF ALL CANDIDATES FOR GRADUATION)

English Composition 1, 2

English Composition 3, 4

English Literature 3, 4 or 17, 18 or 19, 20

History 1, 2

Foreign Languages 1, 2 and 3, 4 or equivalent

Biology 3, 4 or Chemistry 1, 2 or Physics 1, 2 (if prerequisites are satisfied)

Economics 3, 4, or Political Science 1, 2

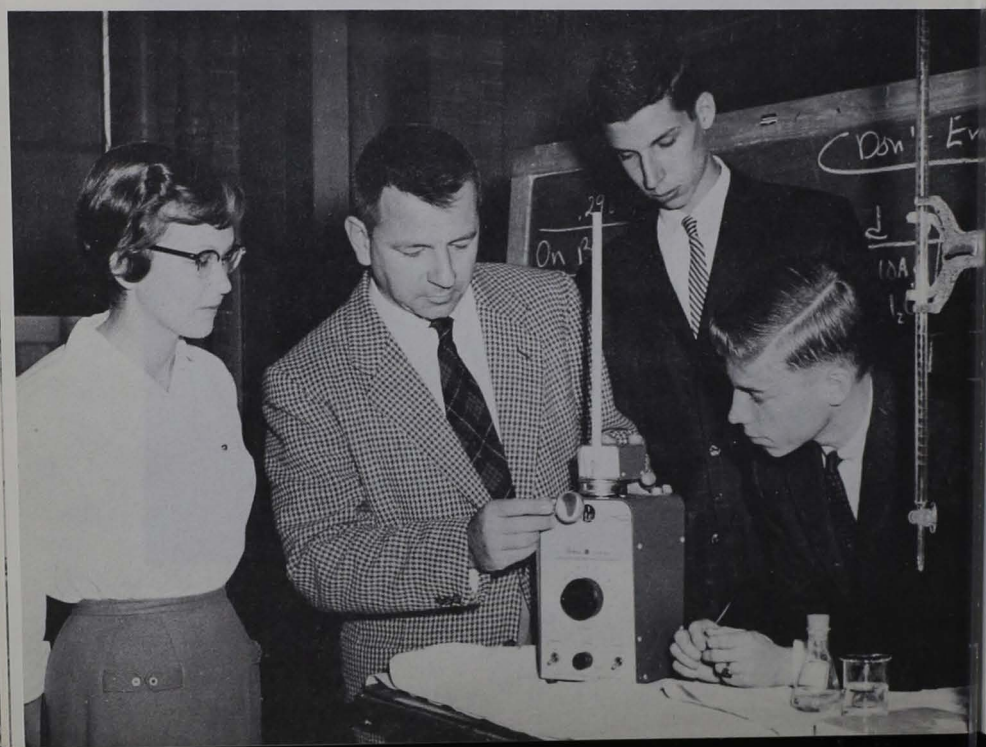
Psychology 1

Philosophy (one semester)

Physical Education 101, 2 (No semester hour credit. Not required of students in the Physical Education Department).

All requirements for graduation must be satisfied before the end of the last day of examination week preceding commencement. *Each student must bear responsibility for fulfilling his requirements for graduation.*





Courses of Instruction

IN DESIGNATING COURSES of study, *odd* numerals are employed to indicate the courses offered during the Fall Term and *even* numerals the work of the Spring Term. Exceptions to this regulation are noted. Summer Term offerings are not announced in this catalogue, but so far as possible, courses will be offered to meet the needs of students who register for the Summer Term.

The credit value of each course, expressed in semester hours, is printed in italics. The hours per week are given in the definition of the course.

BIOLOGY

PROFESSOR WAGNER

MR. KIRCHEN

PROFESSOR VAN DAM

MRS. SHINEHOUSE

The program of this department aims, through the study of a number of aspects of biology, to foster the scientific attitude in its students, to encourage and maintain a critical and enthusiastic interest in the subject of biology for its own sake, and to provide a background of fundamental courses sufficient for its majors to qualify for teacher certification in the secondary schools and for pre-professional preparation in the several fields of the health services. The department prepares students for advanced work in the biological sciences.

Students majoring in Biology must take a minimum of 28 semester hours in Biology, including Biology 103, 104; 7, 8; 19; 21 or 22. The additional electives may be selected from Biology 6, 17, 18, 20, 21, 22, 23, 24, 25, 26. This department also requires its majors to take the following related courses: Physics 1, 2; Chemistry 101, 102; Mathematics 1, 2 or 1a, 2a.

Teaching This program (major in Science, concentration in Biology) is designed for prospective secondary school teachers whose principal interest is Biology and who wish to be certified in Biological Science, Science, and General Science.

The following courses are prescribed by the Department of Biology: Biology 103, 104, 6, 17, 18, 19, 21, 22, Chemistry 1, 2 or Physics 1, 2, Mathematics 1, 2, History 116.

The curriculum of students beyond the first year must be arranged in consultation with the head of the Department of Education.

For sequence of courses, see Major in Science, Concentration in Biology, p. 107.

Description of Courses

3. General Biology (Zoology)

MR. KIRCHEN

Introduction to principles of structure, function, and development of living things as revealed in a study of selected animal types. Two hours of lecture; one two-hour laboratory period per week. *Three semester hours.*

4. General Biology (Botany)

MR. KIRCHEN

Introduction to principles of structure, function, and development of living things as revealed in a study of selected plant material. Two hours of lecture; one two-hour laboratory period per week. *Three semester hours.*

Courses 3 and 4 of General Biology are not open to Biology majors but may be taken by any non-science student to satisfy the college requirements for graduation.

103. *General Biology (Zoology)*

DR. VAN DAM

A study of general principles of structure, function, and developments of animal cells and organs, and of representative animal types. Two hours of lecture; two two-hour laboratory periods per week. *Four semester hours.*

104. *General Biology (Botany)*

DR. VAN DAM

A study of general principles of structure, function and development of plant cells and of representative plant types. Two hours of lecture; two two-hour laboratory periods per week. *Four semester hours.*

Courses 103 and 104 are the basic introductory courses prescribed for all biology majors and for any others who are planning to meet the various pre-professional requirements in biology.

6. *Advanced Botany*

DR. WAGNER

The course is designed to give the student a more detailed knowledge of the vascular plant groups, stressing the principles of taxonomy, ecology, and plant geography. Lectures and discussions followed by field and laboratory work. Prerequisite, course 104. Two hours of lecture; one three-hour laboratory period per week. *Three semester hours.*

Biology 6 is required for those who intend to apply for certification in Pennsylvania as teachers of biology and for pre-veterinarian students.

7. *Vertebrate Anatomy*

MR. KIRCHEN

The comparative anatomy and relationships of the chordates. A survey of the lower chordates and a detailed consideration of the external anatomy, the skeletal and muscular systems of the Dogfish, Necturus, and Cat. Prerequisite, Biology 103, 104. One hour of lecture; two three-hour laboratory periods per week. *Four semester hours.*

8. *Vertebrate Anatomy*

MR. KIRCHEN

A continuation of course 7 covering the digestive, circulatory, uro-genital and nervous systems of the Dogfish, Necturus, and Cat. Prerequisites, Biology 103, 104, 7. One hour of lecture; two three-hour laboratory periods per week. *Four semester hours.*

17. *Human Anatomy and Physiology*

DR. VAN DAM

A study of the structure, function and development of the muscular, skeletal, and nervous systems. One hour of lecture; one two-hour laboratory period per week. *Two semester hours.*

18. *Human Anatomy and Physiology*

DR. VAN DAM, MRS. SHINEHOUSE

A study of the structure, function, and development of internal and sense organs. Prerequisite, Biology 3 or 103. One hour of lecture; one two-hour laboratory period per week. *Two semester hours.*

19. *Embryology*

DR. WAGNER

Gametogenesis, early development, histogenesis and organogenesis of selected animal types, especially the chick, pig, and human. Prerequisites, Biology 103, 104. One hour of lecture; two three-hour laboratory periods per week. *Four semester hours.*

20. *Histology*

DR. WAGNER

Structural and developmental study of tissues and organs of the vertebrate body.

Introduction to histological technique. Prerequisite, Biology 103, 104. One hour of lecture; two three-hour laboratory periods per week. *Four semester hours.*

21. *Heredity*

DR. WAGNER

Lectures and discussion dealing with the principles of plant and animal genetics, and the consideration of factors pertaining to human inheritance. Assigned readings and papers. Prerequisite, Biology 3, 4 or 103, 104. Three hours per week. *Three semester hours.*

22. *Evolution*

DR. WAGNER

Lectures and discussions explaining the history of living things in space and time. Assigned readings and papers. Open to all students. *Two semester hours.*

23. *Seminar*

STAFF

Papers and reports concerned with the selected phases of biological knowledge. Topics to be chosen by the instructor in charge. Prerequisites, Biology 7-8; or 19,20. Open to third and fourth year majors in biology. One hour per week. *One semester hour.*

24. *Seminar*

STAFF

A continuation of course 23. Prerequisites, Course 7-8; or 19, 20. Open to third and fourth year majors in biology. One hour per week. *One semester hour.*

25. *General Physiology*

DR. VAN DAM

A study of physical-chemical aspects of cellular processes, and principles of related experimental techniques. Prerequisites, Biology 103, 104; Chemistry 101, 102 (107, 108 recommended); Physics 1, 2. Two hours of lecture; one four-hour laboratory period per week. *Four semester hours.*

Course 25 will be given both semesters (Fall and Spring) if class size demands it. Enrollment is limited to 12 students in each term.

*26. *General Physiology*

DR. VAN DAM

A continuation of Biology 25. Prerequisites, Biology 7, 8, 25. Two hours of lecture; one four-hour laboratory period per week. *Four semester hours.*

CHEMISTRY

PROFESSOR STURGIS

PROFESSOR PETTIT

ASSOCIATE PROFESSOR STAIGER

ASSISTANT PROFESSOR FORTNUM

The courses of study offered by the Chemistry Department are (1) to provide a course in general chemistry which will satisfy the requirements of the College for a laboratory science; (2) to provide training in chemistry for students planning to teach; (3) to provide more than minimum training for students planning to become technicians in medical laboratories, and for pre-dental and pre-medical students; (4) to offer sufficient specialized training in chemistry beyond the basic courses that will enable the graduates to enter a career as a professional chemist; and (5) to prepare students for graduate training.

* Not offered in 1961-1962.

Students whose principal interest is Chemistry will select a degree of concentration consistent with their vocational objective.

One of the following programs must be selected:

1. *Chemistry Major*

This program outlined in detail on page 107 is approved by the American Chemical Society for undergraduate professional training in Chemistry.

The following courses are prescribed: Chemistry 101, 102, 103, 104, 105, 107A, 108A, 109, 110, 117, 118; Mathematics 1, 2, 5, 6; Physics 1, 2; Biology 3, 4.

2. *Healing Arts*

This program is designed for degree-seeking students planning for admission to professional schools in the healing arts (medicine, dentistry, osteopathy, veterinary medicine, etc.) who are specializing in Chemistry in college.

The following courses are prescribed: Chemistry 101, 102, 103, 104, 107, 108, 109, 110; Mathematics 1, 2, 5, 6; Physics 1, 2; Biology 103, 104.

3. *Teaching*

This program (major in Science, concentration in Chemistry) is designed for prospective secondary school teachers whose principal interest is Chemistry and who wish to be certified in Physical Science, Science, and General Science.

The following courses are prescribed by the Department of Chemistry: Biology 3, 4, 21, 22; Chemistry 101, 102, 103, 104, 107, 108; History 116; Mathematics 1, 2; Physics 1, 2, 11, 12.

The curriculum of students beyond the first year must be arranged in consultation with the head of the Department of Education.

A student presenting six credits in General Chemistry may satisfy the prerequisite for an advanced course by taking Course 102, for which one credit will be given.

1. *General Chemistry*

DR. FORTNUM

A development of the history, facts, and theories of the chemistry of the more common elements, including an introduction to organic and nutritional chemistry. For the non-science students this general course is offered as a terminal course and provides an understanding of the basic theories and principles of both inorganic and organic chemistry with related laboratory experience. Course 1, 2 may not be substituted for 101, 102 by students planning to major in chemistry. Two hours of lecture and three hours of laboratory work per week. *Three semester hours.*

2. *General Chemistry*

DR. FORTNUM

A continuation of Course 1. Prerequisite, Course 1. Two hours of lecture and three hours of laboratory work per week. *Three semester hours.*

101. *General Chemistry*

DR. STAIGER

A detailed study of the theories and laws of inorganic chemistry, covering the common elements of the periodic system with their practical and industrial application. This course is accompanied by work in the mathematical solution of chemical problems and is prerequisite to advanced chemistry courses. Three hours of lecture and recitation and three hours of laboratory work per week. *Four semester hours.*

102. *General Chemistry*

DR. STAIGER

A continuation of Course 101. Prerequisite, Course 101. Three hours of lecture and recitation and three hours of laboratory work per week. *Four semester hours.*

103. *Qualitative Analysis*

DR. STURGIS

The physico-chemical basis of analytical chemistry; analysis of the common cations and some of the anions. Prerequisite, Course 101, 102. Three hours lecture and three hours of laboratory work per week. *Four semester hours.*

104. *Quantitative Analysis*

DR. STURGIS

A study of the most acceptable methods of gravimetric and volumetric analysis. Prerequisite, Course 103. Three hours of lecture and three hours of laboratory work. *Four semester hours.*

105. *Quantitative Analysis*

DR. STURGIS

A continuation of Course 104. Prerequisite, Course 103, 104. *Four semester hours.*

107. *Organic Chemistry*

DEAN PETTIT

The study of the properties, synthesis, and structure of the most important classes of the carbon compounds. Prerequisite, Course 101, 102 or equivalent. Three hours of lecture and three hours of laboratory work per week. *Four semester hours.*

108. *Organic Chemistry*

DEAN PETTIT

A continuation of Course 107. Prerequisite Course 107. Three hours of lecture and three hours of laboratory work per week. *Four semester hours.*

107A. *Organic Chemistry*

DEAN PETTIT

The study of the properties, synthesis, and structure of the most important classes of the carbon compounds. Prerequisite, Course 101, 102, or equivalent. Three hours of lecture and six hours of laboratory per week; lecture sessions are held jointly with Chemistry 107. This course is required for students whose major is chemistry. *Five semester hours.*

108A. *Organic Chemistry*

DEAN PETTIT

A continuation of Course 107A. Prerequisite, Course 107A. Three hours of lecture and six hours of laboratory work per week. This course is required for students whose major is Chemistry. *Five semester hours.*

109. *Physical Chemistry*

DR. FORTNUM

The course includes a study of the states of matter, the properties of solution, atomic structure, radio-activity, and other topics. Prerequisites, Physics 1, 2; Mathematics 5, 6; Courses 104, 107 and 108. Three hours of lecture and three hours of laboratory work per week. *Four semester hours.*

110. *Physical Chemistry*

DR. FORTNUM

A continuation of Course 109. Prerequisite, Course 109. Three hours of lecture and three hours of laboratory work per week. *Four semester hours.*

117. *Advanced Inorganic Chemistry*

DR. STAIGER

The study of the classification of inorganic compounds; the theory of the chemical bond, complex compounds and their properties, and isomerization and resonance of inorganic compounds. Two hours of lecture and three hours of laboratory per week. Prerequisite, Course 104, 105. *Three semester hours.*

118. *The Identification of Organic Compounds*

DR. STAIGER

The classification and identification of organic compounds based on physical and chemical properties; the chemical analysis of organic functional groups and the preparation of characteristic derivatives. Two hours of lecture and three hours of laboratory per week. Prerequisite, Course 107, 108. *Three semester hours.*

*120. *Seminar*

DR. FORTNUM

Papers and reports in Physical Chemistry. One hour per week. *One semester hour.*

121. *The Literature of Chemistry*

DEAN PETTIT

The use of books, journals, and reports in the field of Chemistry. Open to third-year and fourth-year students. Prerequisites, Course 107, 108 and German 3, 4, one hour per week. *One semester hour.*

*122. *Seminar in Organic Chemistry*

DEAN PETTIT

Reports on recent advances in Organic Chemistry. One hour per week. *One semester hour.*

CLASSICAL LANGUAGES

PROFESSOR DONALD BAKER

The chief objective of the Classics Department is to develop in the student accuracy in thought and verbal expression. Other objectives are to enlarge the student's perspective by introducing him to a civilization other than his own; to increase his knowledge and understanding of the literature and institutions of England and America by studying the Greek and Roman sources from which they came; to encourage in the student a mastery of two languages which are important tools in many fields.

Students majoring in Classical Languages are required to take at least 12 semester hours of Greek and 12 semester hours of Latin, beyond Latin 2. In the first half of his senior year, each student must take the Seminar in Classical Studies, Greek 7. In the examination at the close of this course, he will be expected to show a satisfactory general knowledge of Greek and Roman literature, language, art, history, geography, mythology, religion, and private life. For this examination the student is expected to prepare himself (with the advice and help of the instructor) throughout his previous three years both by courses and by outside reading.

GREEK

1. *Beginning Greek*

DR. BAKER

Six hours per week. *Six semester hours.*

Course 1 may be elected by students in any major field.

2. *Intermediate Greek*

DR. BAKER

Three hours per week. *Three semester hours.*

Prerequisite, Greek 1 or its equivalent.

* This course is not offered in 1961-1962.

3, 4, 5, 6. *Advanced Greek*

DR. BAKER

Readings from Homer, Thucydides, Aristophanes, and other authors depending on the preferences and capacities of those electing the course. Only one of these courses will be given in any one semester. *Three semester hours.*

7. *Seminar in Classical Studies*

DR. BAKER

A study of selected topics dealing with the Greco-Roman world. Knowledge of Greek and Latin is a prerequisite. Three hours per week. *Three semester hours.*

8. *New Testament Greek*

DR. DONALD BAKER

DR. DAVID BAKER

Three hours per week. *Three semester hours.*

Prerequisite, Greek 2.

LATIN

1. *Elementary Latin*

DR. BAKER

A study of the grammar, syntax, and vocabulary, with emphasis upon the Latin elements in English words. Reading of passages from various authors. Three hours per week. *Three semester hours.*

2. *Elementary Latin continued*

DR. BAKER

Three semester hours.

3, 4. *Ovid, Virgil*

DR. BAKER

Each *three semester hours.*

Prerequisite, Latin 2 or its equivalent.

5, 6, 7, 8, 9, 10, 11, 12. *Advanced Latin*

DR. BAKER

The instructor will arrange with students electing these courses to read authors of one period or literary type, or authors whose works may be correlated with other fields of study, e.g., philosophy, history, law. Not more than two of these courses will be given in any one semester. Each of them carries *three semester hours* credit.

Prerequisite, Latin 4 or its equivalent.

22. *Preparation for Teaching Latin*

DR. BAKER

For third-year or fourth-year students. Three hours per week. *Three semester hours.*

DRAFTING AND DESCRIPTIVE GEOMETRY

1. *Drafting*

MR. MARSTELLER

Freehand lettering, use of instruments, geometric construction, freehand sketching, orthographic projection including auxiliary views, sectioning, axonometric projection, oblique projection, intersections, developments, fasteners, dimensioning, working drawings, shop processes, reproduction methods, graphs. Six hours laboratory per week. *Three semester hours.*

2. *Descriptive Geometry*

MR. MARSTELLER

Principles of projection, problems involving the essential relations of points, lines and planes, surfaces of revolution, warped surfaces, intersections, developments. Six hours laboratory per week. *Three semester hours.*

ECONOMICS AND BUSINESS ADMINISTRATION

PROFESSOR BONE
PROFESSOR BOSWELL

ASSISTANT PROFESSOR SYMONS
ASSISTANT PROFESSOR RAFETTO

MR. MAC MURRAY

The work in the department of Economics and Business Administration is designed to give (1) a knowledge of economic philosophy; (2) a knowledge of the structure and functioning of our economy; (3) a suitable background for those who wish to enter business or graduate school.

Students majoring in this department must take a minimum of thirty (30) semester hours of work in the department, including Courses 3 and 4, and twelve (12) semester hours of work in Political Science, including Course 1-2.

A student may, if he wishes, concentrate in Accounting, Economics, Finance, or Industrial Relations, as is indicated by the grouping of courses as shown below:

Accounting: Economics 3, 4, 6, 11, 12, 15, 19, 20; Mathematics 11-12, 13-14; Electives in the department: six (6) semester hours.

Economics: Economics 3, 4, 8, 9, 10, 14, 17, 21; Electives in the department: six (6) semester hours.

Finance: Economics 3, 4, 6, 9, 10, 11, 12, 13, 15; Mathematics 11-12.

Industrial Relations: Economics 3, 4, 5, 18, 22, 23; Electives in the department; twelve (12) semester hours.

3. *Economic Principles*

DR. BOSWELL AND STAFF

A survey of the general principles which underlie the functioning of our economic system. Special attention is given to the roles played by each of the factors of production, and to the pricing process. *Three semester hours.* Economics 3 is prerequisite for all other courses.

4. *Economic Problems*

DR. BOSWELL AND STAFF

A study of current economic problems, their impact on our society, and a critical analysis of proposed solutions. Among the problems considered are inflation, taxation, price controls, and monopolistic tendencies in business and labor, and our economic relations to other countries. *Three semester hours.* Economics 4 is a prerequisite for all other courses except Economics 3.

5. *Labor Problems*

MR. SYMONS

A study of human relations arising from industrial organizations and the employers' part in bringing about industrial peace. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

6. *Business Finance*

MR. SYMONS

A study of the financial aspects of business management, including the financing of corporations. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

7. *Marketing*

MR. SYMONS

A survey of the marketing mechanism and a comparative study of the most usual methods and practices. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

8. *Foreign Trade*

MR. SYMONS

The principles of foreign trade; relation of foreign trade to national prosperity; foreign trade policies of the more important countries. Prerequisite, Courses 3, 4 and 7. Three hours per week. *Three semester hours.*

9. *Money and Banking*

DR. BOSWELL

A study of monetary and banking theories followed by an analysis of the services and methods of operation of our commercial banks. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

10. *Investments*

DR. BOSWELL

A survey of the various types of investment opportunities available. A study of methods of analyzing securities and timing their purchase or sale. Prerequisite, Courses 3, 4, 9. Three hours per week. *Three semester hours.*

11. *Fundamentals of Accounting*

MR. BONE

Fundamental principles involved in the proprietorship and partnership form of organization. Adjusting and closing the books, preparation of statements and working papers. Problems and systematic practice set accompany the work. Prerequisite, Courses 3, 4. Four hours per week. *Three semester hours.*

12. *Principles of Accounting*

MR. BONE

Principles involved in the corporate form of organization, including large enterprises and manufacturing types of business. Problems, questions and a systematic practice set accompany the work. Four hours per week. Prerequisite, Courses 3, 4, 11. *Three semester hours.*

13. *Public Finance and Taxation*

MR. SYMONS

A study of the general principles of public expenditures, public revenues, public indebtedness, and financial administration. Attention will be given to the principles and workings of the Federal Income Tax law. There will be class assignments in solving actual income tax problems. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

14. *Railway Transportation*

MR. SYMONS

A study of the financing of railroad construction in the United States; rate making, routing, personal and territorial discrimination, competition and consolidation; state and federal legislation and regulation; government operation; criticisms of some of the proposed solutions of our railway problems. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

15. *Business Law*

MR. BONE

An introductory course covering the fundamental procedures governing contracts, sales, agency, bailments, negotiable instruments, real and personal property. Lectures reading, and study of cases and problems. Three hours per week. Prerequisite, Courses 3, 4. *Three semester hours.*

17. *Business Organization*

MR. RAFETTO

A study of the forms of business organizations—the historical background and the reasons for their development. Governmental control of large organizations with special

attention given to the problems of monopolies. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

18. *Industrial Management*

MR. RAFETTO

Historical background of industrial management, organization, physical plant, standardization, time study, wage payment, methods, control of production, planning and operation, executive control. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

19. *Intermediate Accounting*

MR. BONE

A study of advanced principles and the application of principles to the analysis of problems. Analysis of profits, application of funds, capital expenditures and depreciation policies, inventory valuation, installment accounts, branches, consolidated statements. Two hours per week. *Two semester hours.* Prerequisite, Economics 11, 12.

20. *Introductory Cost Accounting*

MR. BONE

A study of the fundamental principles of cost accounting. Methods of finding the cost of specific orders or lots, fundamentals of process costs, accounting for by-products and joint products, estimate costs, and standard costs. Prerequisite, Courses 11, 12. Two hours per week. *Two semester hours.*

21. *History of Economic Thought*

DR. BOSWELL

Attention is devoted largely to a study of the Physiocratic, Classical, and Neo-Classical writers. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

22. *Personnel Management*

MR. RAFETTO

An examination of methods of selecting and training workers; also the development of policies designed to build and maintain worker morale. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

23. *Labor Law and Social Security*

MR. RAFETTO

An examination of labor legislation, the social security program, and workmen's compensation, as they affect labor organization policies, employer policies, terms of collective bargaining agreements, and their relation to employment, living standards, and the general public welfare. Prerequisite, Courses 3, 4. Three hours per week. *Three semester hours.*

24. *Auditing*

STAFF

This course includes a study of the auditing standards and procedures as applied to verifying or detecting errors in financial records. Emphasis is placed upon writing reports covering the results of the audit. Tuesday evenings. Fall term. Three hours per week. *Three semester hours.* Prerequisite, Economics 11, 12, 19, 20, or permission of the instructor.

25. *Tax Accounting*

STAFF

This course covers the general field of preparation of income tax returns, both personal and corporate, dealing with municipal, state, and federal taxation. Tuesday evenings. Spring term. Three hours per week. *Three semester hours.* Prerequisite, Economics 11, 12, 19, 20, or permission of the instructor.

Mathematics of Finance. See *Mathematics*, Courses 11-12 and 13-14, p. 88.

EDUCATION

PROFESSOR TYSON
PROFESSOR MESSINGER

PROFESSOR MINNICH
ASSOCIATE PROFESSOR FLETCHER

The Department of Education provides the professional courses required for certification of Secondary School teachers in Pennsylvania, New Jersey, Delaware and Maryland. Students preparing for requirements of other states should consult the Head of the Department for information concerning specific requirements of those states. In planning its curriculum, the Department has in mind five specific areas in which the growth of students is to be stimulated:

1. To increase their awareness of the functions of the school in modern society;
2. To understand the changing philosophies of education which are advanced with the changes occurring in society;
3. To increase their understanding of the nature of growth and development of human beings;
4. To understand how learning takes place;
5. To understand the methods used by the school in gaining its objectives.

The Department of Education regards the preparation of teachers to be a function of the College as a whole.

Students preparing for teaching must complete Psychology 1 prior to taking courses in Education. Students are expected to follow the sequence of courses listed below:

Spring semester of the second year, Education 2.

Fall semester of the third year, Education 31.

Spring semester of the third year, Education 32 and Education 48.

Fall semester of the fourth year, Education 5 (Student Teaching).

Spring semester of the fourth year, Education 44.

2. *Introduction to Teaching in Secondary Schools*

DR. MESSINGER

The characteristics of teaching as a profession with special reference to secondary education; the nature and interests of adolescents; the task of secondary schools in the United States contrasted with those in other countries; the organization of secondary education to meet the needs of pupils. Three hours per week during the second semester of the second year. *Three semester hours.*

5. *Student Teaching*

DR. MESSINGER, MR. MINNICH

A laboratory course in student teaching consisting of observation, participation and teaching in neighboring high schools, with individual and group conferences. Consult the instructor for the requirements of different states. Required to complete certification. Open only to fourth-year students who meet the personality and scholastic requirements. This course is given in the fall term, and only six hours of additional work can be carried with it. Prerequisite, Courses 2, 31, 32, 48. *Eight semester hours.*

9. *Educational and Psychological Tests and Measurements*

DR. FLETCHER

An introductory survey of the field of measurement in education, including measurement of intelligence and school results; main features of the technique of testing and

test construction; types of tests and scales; evaluation; interpretation; use. Prerequisite, courses 31, 32. Three hours per week. *Three semester hours. (Same course as Psychology 9).*

24. *Visual and Auditory Aids*

MR. MINNICH

A study of the design, construction, and application of the combined visual and auditory aids to learning; anatomy and physiology of the eye and ear; the psychology of sensation and perception and its application in the use of slides, charts, motion pictures, and models. Review of applied research projects dealing with audio-visual aids to instruction and learning. Three hours per week. *Three semester hours.*

31. *Educational Psychology-Growth and Development*

DR. TYSON

The nature of growth. The dynamics of personality development. The characteristics of physical, mental, emotional and social growth from the prenatal period until old age. The development of attitudes, interests and values. The ideal of an integrated personality. (Same course as Psychology 31). Three hours per week. *Three semester hours.*

32. *Educational Psychology-Learning and Teaching*

DR. TYSON

The role of the teacher as a professional person. Basic learning theory needed by teachers. The nature and conditions of learning. The development of learning units. Individual differences in mental ability and their educational implications. Mental hygiene in the classroom. (Same course as Psychology 32.) Three hours per week. *Three semester hours.*

44. *Social Foundations of Education*

MR. MINNICH

Historical, economic, social and philosophical changes are studied from the stand point of their effects upon the development of the school, its curriculum and personnel. Three hours per week. *Three semester hours.*

48. *Special Methods of Teaching in the Secondary School*

STAFF

Dr. Messinger and Dr. Tyson (Science), Mr. Minnich (Social Studies), Dr. Phillips (English), Dr. Garrett (Romance Languages), Dr. Hartzell (German), Dr. Dennis (Mathematics), Miss Snell and Mr. Gurzynski (Health and Physical Education).

This Course meets three times a week, twice with the teacher from the special field and once with a member of the Department of Education.

Grades for Education 48 will be determined cooperatively by the instructor in Education and the instructor in the particular special field.

The course includes methods of teaching in each special field with consideration of the course of study for Pennsylvania and a survey of the literature dealing with methods and problems in each special area of instruction. *Three semester hours.*

This course shall be designated on the college records as *Education 48* with the following suffixes:

- (S) — Science
- (SS) — Social Science
- (E) — English
- (RL) — Romance Languages
- (G) — German

(M) — Mathematics

(H. and P.E.) — Health and Physical Education

Education 48, Health and Physical Education, will be satisfied by Education 48 (in part), one semester hour, together with either Physical Education 55 or 56.

Complete statements of the various requirements for certification in each subject matter area, for both Pennsylvania and New Jersey, are obtainable at the Office of Admissions and at the office of the head of the department of Education.

ENGLISH

PROFESSOR YOST

PROFESSOR MC CLURE

PROFESSOR PHILLIPS

PROFESSOR DONALD BAKER

ASSOCIATE PROFESSOR DOLMAN

ASSOCIATE PROFESSOR STOREY

ASSISTANT PROFESSOR JONES

ASSISTANT PROFESSOR KERSHNER

MR. HUDNUT

MR. GUSTAVSON

This department offers instruction in the knowledge and use of the English language, a study based on the premise that language is the indispensable tool in the life and labor of civilized man and is the art through which he most fully expresses his spirit. Its courses in literature provide opportunity to form an extensive acquaintance with English and American literature and to understand individual works as unique artistic creations and as products of a historical and social process. The ultimate aim is to implant a discriminating appreciation for the best that has been written in our civilization.

Students majoring in English must take the following courses: English Literature 3, 4; 9, 10; 11, 12; 19, 20; and eight additional semester hours in English; History 109, 110 or 111, 112; 113, 114.

Students preparing for graduate study in English should elect French and German as their modern languages. Study in classical languages is strongly recommended for such students.

COMPOSITION

1. *First Year Composition*

DR. YOST AND STAFF

The fundamental grammar of English; the study and writing of expository prose. Three hours per week. *Three semester hours.*

2. *First Year Composition*

DR. YOST AND STAFF

Continuation of Course 1; training in the critical reading of prose and verse. Prerequisite, Course 1. Three hours per week. *Three semester hours.* Course 2 is prescribed for all students.

3. *Second Year Composition*

DR. YOST AND STAFF

Problems of functional writing; expository methods and practice. Prerequisite, Courses 1 and 2. One hour per week. *One semester hour.* Course 3 is prescribed for all students.

4. *Second Year Composition*

DR. YOST AND STAFF

Continuation of Course 3. Prerequisite, Course 3. One hour per week. *One semester hour.*

Course 4 is prescribed for all students.

5. *Advanced Composition*

MR. DOLMAN

Discussion of and practice in current types of *fictional* writing, with emphasis on the *short story*. Prerequisite, Courses 1, 2, 3, 4. Two hours per week. *Two semester hours.*

6. *Advanced Composition*

MR. DOLMAN

Discussion of and practice in non-fictional writing with an introduction to basic forms of journalism. Prerequisite, Courses 1, 2, 3, 4. Two hours per week. *Two semester hours.*

*7. *Advanced Composition*

MR. DOLMAN

A course in descriptive writing and an introduction to the various creative forms used in Composition 8. Prerequisite, Courses 1, 2, 3, 4. Two hours per week. *Two semester hours.*

*8. *Advanced Composition*

MR. DOLMAN

A conference course in creative writing offering the student opportunity to practice his favorite type of composition. Enrollment is limited to twelve qualified students by arrangement with the instructor. Prerequisite, Courses 1, 2, 3, 4. Individually scheduled. *Two semester hours.*

Courses 5 and 6 alternate with Courses 7 and 8.

LITERATURE

3. *Survey of English Literature*

DR. PHILLIPS, DR. STOREY, DR. KERSHNER, MR. JONES

The history of English Literature from the beginning to the end of the neo-classical era. Special attention is given to the social background. Two hours per week. *Two semester hours.*

4. *Survey of English Literature*

DR. PHILLIPS, DR. STOREY, DR. KERSHNER, MR. JONES

A continuation of course 3 to the present. Two hours per week. *Two semester hours.* Courses 3, 4 are prescribed for second-year students majoring in English and are elective for second-year students in other major fields.

*5. *The English Essay. Eighteenth Century*

DR. STOREY

A study of the essay and non-fictional prose from the age of Queen Anne to the end of the eighteenth century. Three hours per week. *Three semester hours.*

Course 5 is elective for third-year and fourth-year students.

*6. *The English Essay. Nineteenth Century*

DR. STOREY

A study of the essay and non-fictional prose from Lamb to Stevenson. Three hours per week. *Three semester hours.*

Course 6 is elective for third-year and fourth-year students.

7. *English Poetry, 1790-1824*

DR. YOST

A study of English poetry from 1790 to the death of Byron. The decline of neo-classi-

*This course is not offered in 1961-1962.

cism; the romantic movement. Three hours per week. *Three semester hours.*

Course 7 is elective for third-year and fourth-year students.

8. *English Poetry, 1824-1890*

DR. YOST

A study of the poetry of Tennyson and his contemporaries. Three hours per week. *Three semester hours.*

Course 8 is elective for third-year and fourth-year students.

9. *Shakespeare*

DR. MC CLURE

The reading of Shakespeare's principal plays and the study of their background. Three hours per week. *Three semester hours.*

10. *Shakespeare*

DR. MC CLURE

Continuation of Course 9. Course 9 is not a prerequisite for Course 10. Three hours per week. *Three semester hours.*

Courses 9 and 10 are prescribed for third-year and fourth-year students majoring in English and are elective for third-year and fourth-year students in other major fields.

Courses 9 and 10 alternate with Course 16.

11. *History of the English Language*

DR. MC CLURE

Introduction to Anglo-Saxon and the history of the English Language. Two hours per week. *Two semester hours.*

12. *History of the English Language*

DR. MC CLURE

Continuation of Course 11. Prerequisite 11. Two hours per week. *Two semester hours.* Course 11-12 is prescribed for second-year students majoring in English and is elective in other major fields.

15. *Modern Poetry*

DR. PHILLIPS

English poetry from 1890 to the present. Two hours per week. *Two semester hours.* Course 15 is elective for all students.

*16. *English Poetry, 1500-1600*

DR. MC CLURE

The development of narrative and lyric poetry. Two hours per week. *Two semester hours.*

Course 16 is elective for all students.

17. *The English Novel*

DR. PHILLIPS

A reading course in the development of the novel from its origin to the present. Two hours per week. *Two semester hours.*

Course 17 is elective for all students.

18. *Modern Drama*

DR. PHILLIPS

A reading course in the modern European and American drama from Ibsen to the present. Two hours per week. *Two semester hours.*

Course 18 is elective for all students.

*This course is not offered in 1961-1962.

19. *American Literature*

DR. YOST

A survey of American literature from its beginnings to the Civil War. Three hours per week. *Three semester hours.*

20. *American Literature*

DR. YOST

American literature from the Civil War to the present. Prerequisite, Course 19. Three hours per week. *Three semester hours.*

Course 19-20 is prescribed for third-year and fourth-year students majoring in English and is elective for second-year, third-year and fourth-year students in other major fields.

21. *Classics in Translation*

DR. BAKER

A study of the major authors of ancient Greece and Rome, with a view to understanding the background of European and English literature. Two hours per week. *Two semester hours.*

22. *Classics in Translation*

DR. BAKER

Continuation of Course 21. Two hours per week. *Two semester hours.*

Courses 21, 22 are elective for third-year and fourth-year students.

24. *English Poetry*

DR. YOST

A seminar in the reading and interpretation of English and American poetry. Prerequisite, Course 3-4. Three hours per week. *Three semester hours.*

Course 24 is elective for fourth-year students, with the permission of the instructor.

FRENCH

See under *Romance Languages.*

GEOGRAPHY

See *History 128.*

GERMANIC LANGUAGES

PROFESSOR HARTZELL

PROFESSOR RICE

MISS GROPP

The German Department strives to encourage the student to read, translate, write, and speak German well.

The reading material is chosen with the principles of Ursinus College in mind.

GERMAN

Students majoring in German must take the following courses: German 5, 6; 7, 8; 9, 10; 13-14 and 21; twelve (12) semester hours study in another language.

1. *Elementary German*

DR. RICE

Elements of pronunciation; essentials of grammar. Three hours per week. *Three semester hours.*

This course is elective for all students who do not offer German for admission.

2. *Elementary German*

DR. RICE

Continuation of German 1. Review of essentials of grammar; reading of simple prose and poems. Three hours per week. *Three semester hours.*

3. *Intermediate German*

DR. HARTZELL, MISS GROPP

Grammar review; reading of more difficult German prose and poetry, composition, and conversation.

This course is required of those who have had two years of high school German and elect to continue the study of German in college. Three hours per week. *Three semester hours.*

4. *Intermediate German*

DR. HARTZELL, MISS GROPP

Continuation of German 3. The student is encouraged to develop facility in reading, writing, and speaking German. Three hours per week. *Three semester hours.*

5. *Advanced German Reading*

DR. HARTZELL

Reading of material which will give background for the understanding of Goethe's *Faust*. Three hours per week. *Three semester hours.*

6. *Goethe's Faust*

DR. HARTZELL

A careful study of the text of Goethe's *Faust I* and parts of *Faust II* and the *Urfaust*. Three hours per week. *Three semester hours.*

7. *German of the Classic Period*

DR. HARTZELL

The masterpieces of Lessing and Klopstock. Two hours per week. *Two semester hours.*

8. *German of the Classic Period*

DR. HARTZELL

The masterpieces of Schiller and Goethe. Two hours per week. *Two semester hours.*

*9. *Literature of the Nineteenth Century*

DR. HARTZELL

A careful reading of representative works of the Nineteenth Century. Two hours per week. *Two semester hours.*

*10. *Literature of the Twentieth Century*

DR. HARTZELL

A careful reading of representative works of the Twentieth Century. Gerhart Hauptmann, Kafka, Thomas Mann, Schnitzler and Wiechert are the writers whose works are studied. Two hours per week. *Two semester hours.*

*11. *Scientific German*

DR. RICE

Reading and careful translation of original works in scientific fields. Two hours per week. *Two semester hours.*

*12. *Scientific German*

DR. RICE

Continuation of German 11. Readings may be assigned in scientific journals. Individual consultations. Two hours per week. *Two semester hours.*

13. *Writing and Speaking German*

MISS GROPP

Practice in the oral elements of the language; written composition. Two hours per week. *Two semester hours.*

14. *Writing and Speaking German*

MISS GROPP

Continuation of German 13. Increased emphasis upon speaking German. Two hours per week. *Two semester hours.*

* This course is not offered in 1961-1962.

SWEDISH

Study of Swedish will not fulfill the College general requirement of language for graduation.

*1. *Swedish Language and Culture*

DR. RICE

Grammar, reading, and lectures on cultural background. Three hours per week. *Three semester hours.*

*2. *Swedish Language and Culture*

DR. RICE

Continuation of Swedish 1. Students completing this course will be able to read Danish and Norwegian as well as Swedish. Three hours per week. *Three semester hours.*

3. *Advanced Swedish*

DR. RICE

Readings in Swedish literature, including selections from Danish and Norwegian. Three hours per week. *Three semester hours.*

4. *Advanced Swedish*

DR. RICE

Continuation of Swedish 3. More readings in Swedish literature, including selections from Danish and Norwegian. Three hours per week. *Three semester hours.*

GREEK

See under *Classical Languages.*

HEALTH AND PHYSICAL EDUCATION

PROFESSOR MINNICH

PROFESSOR BAILEY

PROFESSOR SNELL

ASSOCIATE PROFESSOR GURZYNSKI

ASSISTANT PROFESSOR WHATLEY

ASSISTANT PROFESSOR HARRIS

The Health and Physical Education Department of Ursinus College includes two distinct functions: the Service Program, and the Professional course for Teachers. The Service Program includes the requirement of two periods per week in Physical Education for all students in the freshman year, organization of a diversified intramural program for all men and women, and ample provision of facilities for numerous outdoor sports and activities.

The Professional Program for Teachers is a four-year course offered for the training of teachers of Health and Physical Education. It is designed to give specific training in the field of Health and Physical Education within the framework of accepted Liberal Arts education.

Students majoring in Health and Physical Education must take the following courses: Physical Education 31, 32m (32w), 43, 44, 51, 52, 54, 55, 56, 57, 58, 61, 62, 64; 301, 302; 303, 304; 305, 306; 307, 308; Biology, 3, 4; 17, 18; Psychology 8.

SERVICE COURSES

MR. WHATLEY, MISS HARRIS

101, 102. A basic course offering a variety of seasonal games and skills. It is designed to provide enjoyment and relaxation and to develop recreational and social competence.

* This course is not offered in 1961-1962.

tencies through participation in stimulating activities. *This course is a requirement for graduation for all students except those majoring in physical education, and must be completed in the first year. Two hours per week. Not a credit course.*

PROFESSIONAL COURSES

HEALTH AND PHYSICAL EDUCATION

31. *Principles and History of Physical Education*

MISS SNELL

An orientation course designed to give the student an understanding of the meaning, basic philosophies, principles, and problems of physical education; an analysis of its historical background from the era of primitive man to modern times. Three hours per week. *Three semester hours.*

32m. *Personal and Community Health (Men students only)*

MR. GURZYNSKI

A study of factors affecting the physical, mental, and social well-being of the individual and of the community. Major emphasis is placed upon problems of personal health including disease prevention and the understanding of the functioning of the human body. Three hours per week. *Three semester hours.*

32w. *Personal and Community Health (Women students only)*

MISS SNELL

Subject matter and presentation as for Physical Education 52m. Three hours per week. *Three semester hours.*

43. *Community Recreation Programs*

MR. BAILEY

A comprehensive analysis of the leisure-time problem. An examination of the nature, scope, need, and function of community recreation programs, and of the social and economic forces affecting them. Three hours per week. *Three semester hours.*

44. *Problems and Materials of Health and Safety Education in School Programs*

MISS HARRIS

The scope, responsibility, and function of the health education program in the school with particular stress upon the phases of healthful school living, health service, and safety education. Resource materials are studied and compiled. Two hours per week. *Two semester hours.*

51. *Kinesiology*

MR. GURZYNSKI

An anatomical analysis of the mechanics of body movement and position. A study of the fundamental anatomical concepts in relation to the development of physical education skills. Prerequisite, Biology 17, 18. Two hours per week. *Two semester hours.*

52. *Physiology of Activity*

MR. GURZYNSKI

The physiological phenomena underlying physical activity. The anticipatory, immediate, and after effects of exercise on the different organs and the organism as a whole. Class discussion and laboratory demonstration. Prerequisite, Biology 17, 18. Two hours per week. *Two semester hours.*

54. *First Aid and Care and Prevention of Athletic Injuries*

MISS HARRIS

This course deals with the causes, preventive procedures and emergency treatment for all types of common injuries and with those injuries specifically incident to athletic competition. Conditioning exercises, diet and various therapeutic aids are studied. Laboratory practice includes bandaging, taping, massage, and the clinical use of

physical therapy equipment. This work may lead to the Red Cross Advanced First Aid certificate. Two hours per week. *Two semester hours.*

55. *Principles and Methods of Teaching Physical Education* MISS SNELL

Principles, methods, and problems of teaching physical educational activities at the elementary and secondary school levels, lesson planning, unit and curriculum construction. Open only to physical education majors or students who have completed six hours in Education. Two hours per week. *Two semester hours.*

56. *Methods of Health Instruction* MISS SNELL

Analysis of the principles, materials, and methods involved in the teaching of health at different age levels. Lesson plans and unit construction. Open only to physical education majors or students who have completed six hours in Education. Two hours per week. *Two semester hours.*

57. *Principles and Methods of Coaching and Officiating* MISS SNELL,

MR. GURZYNSKI, AND STAFF

This course is designed with particular reference to the needs of prospective coaches and officials. Opportunities are given for practice in coaching and officiating. Two classroom hours and one hour of practice per week. *Two semester hours.*

58. *Principles and Methods of Coaching and Officiating* MISS SNELL,

MR. GURZYNSKI, AND STAFF

Continuation of Physical Education 57. Two hours per week. *Two semester hours.*

61. *Tests and Measurements in Physical Education* MR. GURZYNSKI

This course aims to familiarize the student with the nature, function and history of specific tools of measurement in the field of physical education and to give him working knowledge and experience in the use of essential statistical procedures. Three hours per week. *Three semester hours.*

62. *Administration of Health, Physical Education, and Recreation* MR. BAILEY

A study of the administrative problems in health education and physical education. Two hours per week. *Two semester hours.*

64. *Corrective and Adaptive Physical Education* MR. GURZYNSKI

An analysis of conditions affecting the development of atypical children; methods for selecting and classifying such individuals, with particular attention to the adaption of activities to meet their needs. Three hours per week. *Three semester hours.*

4. *Leadership in Camp and Club Activities* MR. WHATLEY

Discussion of the principles, characteristics, and processes of leadership in light of their significance to directors of camp and club activities. Three hours per week. *Three semester hours.*

ACTIVITIES COURSES

301, 302. *First Year Activities* STAFF

Physical Education activities of a seasonal nature comprise the major content of this course with greatest stress laid on team sports. All activities are analyzed from the teaching standpoint. Students are given opportunities for self evaluation and for

creative and teaching experiences. Consideration is given to the role of rhythmical activities in the program and to the selection and sources of dance materials. Six hours per week. *Four semester hours.*

MEN: Football, soccer, tennis, basketball, baseball, track and field, volleyball, marching tactics, tumbling, calisthenics, apparatus, square, folk and social dancing.

WOMEN: Hockey, soccer, speedball, lacrosse, tennis, volleyball, basketball, softball, track and field, marching tactics, tumbling, calisthenics, rhythmic, square, folk and social dancing.

303, 304. *Second Year Activities*

STAFF

A continuation of Course 201, 202 with some additional activities. More stress is placed on teaching and on the development of advanced skills and team strategies. Six hours per week. *Four semester hours.*

MEN: Football, soccer, speedball, tennis, volleyball, baseball, track and field, boxing, wrestling, marching tactics, tumbling, calisthenics, apparatus, tap dancing.

WOMEN: Hockey, soccer, speedball, lacrosse, tennis, volleyball, basketball, softball, track and field, archery, campcraft, canoeing, low organized games, rhythmic, calisthenics, tumbling, apparatus, tap dancing.

305, 306. *Third Year Activities*

STAFF

More time is devoted to individual sports with continuing emphasis upon the teaching and analysis of skills and strategies, and upon the role of these activities in the physical education program. Opportunity is given in modern dance for original composition. Six hours per week. *Four semester hours.*

MEN: Archery, golf, riding, tennis, lacrosse, canoeing, badminton, boxing, wrestling, swimming, apparatus.

WOMEN: Archery, golf, riding, tennis, lacrosse, canoeing, badminton, swimming, modern dance, apparatus.

307, 308. *Fourth Year Activities*

STAFF

A continuation of Course 205, 206 at a more advanced level. Bowling and lifesaving are offered as additional activities. Three hours per week. *Two semester hours.*

NOTE: Sophomore, junior, and senior women may attend a pre-session camp which offers activities in partial fulfillment of these requirements.

HISTORY

PROFESSOR ARMSTRONG

PROFESSOR DONALD BAKER

PROFESSOR E. H. MILLER

ASSOCIATE PROFESSOR FOSTER

ASSISTANT PROFESSOR DAVIS

ASSISTANT PROFESSOR PARSONS

The objectives of the History Department are to provide an opportunity for students to understand the backgrounds of Western culture and their relationship to the whole world, to illuminate their chosen fields with a knowledge of pertinent historical

material, and to become acquainted with the methods of objective historical research analysis.

In addition to History 1-2, students majoring in history must take Course 13-14; six additional semester hours of European history; ten semester hours in elective history courses, including one seminar; Economics 3, 4; Political Science 1, 2 and Sociology 1.

1. *European Civilization*

DR. ARMSTRONG AND STAFF

An introductory history of Europe for the purpose of providing a general historical background for other courses and for an understanding of contemporary world affairs. Required of all students for graduation, and prerequisite for all other history courses. Two lectures and one section meeting per week. *Three semester hours.*

2. *European Civilization*

DR. ARMSTRONG AND STAFF

Prerequisite History 1. Continuation of Course 1. Required of all students for graduation. Two lectures and one section meeting per week. *Three semester hours.*

*3. *Medieval Institutions*

DR. FOSTER

A study of selected economic, social, cultural, religious, and political institutions essential to the understanding of the period from the fall of Rome to the Renaissance. Three hours per week. This course is open only to third-year and fourth-year students. *Three semester hours. (Alternates with 11.)*

*4. *The Renaissance and the Reformation*

DR. ARMSTRONG

A study of humanism and religion in the 15th and 16th centuries. Three hours per week. This course is open only to third-year and fourth-year students. *Three semester hours. (Alternates with 26.)*

5. *The Age of Enlightenment*

MR. DAVIS

The development of the European state system 1648-1815, the Enlightenment, the French Revolution and the Napoleonic Era. Three hours per week. *Three semester hours. (Alternates with 21.)*

6. *The Age of Romanticism*

MR. DAVIS

European romanticism and nationalism 1815-1870. Three hours per week. *Three semester hours. (Alternates with 22.)*

7. *The World Since 1870*

DR. ARMSTRONG

A study of the impact of industrialization, neo-imperialism, and nationalism upon European peoples and their overseas empires 1870-1914. Three hours per week. *Three semester hours. (Alternates with 9.)*

8. *The World Since 1870*

DR. ARMSTRONG

A continuation of Course 7 covering the period 1914 to the present. Three hours per week. *Three semester hours. (Alternates with 10.)*

*9. *England and the British Empire*

DR. ARMSTRONG

A history of the English people with special attention to political and constitutional developments to 1600. Three hours per week. *Three semester hours. (Alternates with 7.)*

* This course is not offered in 1961-1962.

*10. *England and the British Empire*

DR. ARMSTRONG

A continuation of Course 9 with special attention to political and imperial developments since 1600. Three hours per week. *Three semester hours.* (Alternates with 8.)

11. *English Social History*

DR. FOSTER

A study of the daily life of the English people. Three hours per week. *Three semester hours.* (Alternates with 3.)

12. *English Social History*

DR. FOSTER

A continuation of Course 11. Three hours per week. *Three semester hours.* (Given in alternate years.)

13. *The United States of America*

DR. PARSONS

Political and social history from colonial status to World Power with special emphasis on Pennsylvania. This course is prescribed for all students majoring in history and for any others who are preparing to teach social studies. Three hours per week. *Three semester hours.*

14. *The United States of America*

DR. PARSONS

A continuation of Course 13. Prescribed for all students majoring in history and for any others preparing to teach social studies. Three hours per week. *Three semester hours.*

*15. *American Diplomatic History*

MR. DAVIS

A study of American diplomacy from the treaty of 1783 to the present, including an analysis of the various factors which determine that policy: public opinion, population, world markets and international organization. Three hours per week. *Three semester hours.* (Given alternate years.)

16. *Economic and Social History of the United States and Pennsylvania*

DR. PARSONS

Economic and social foundations and change in the United States with intensive study of Pennsylvania. Three hours per week. *Three semester hours.*

*17. *Latin America*

DR. E. H. MILLER

Political and cultural backgrounds of South and Central American nations and their relation to the interests and policy of the United States. Three hours per week. *Three semester hours.* (Alternates with 23.)

*18. *Latin America*

DR. E. H. MILLER

A continuation of Course 17. Three hours per week. *Three semester hours.* (Alternates with 24.)

19. *Greek History*

DR. BAKER

Studies in the political, social, and economic life of ancient Greece. Two hours per week. *Two semester hours.*

20. *Roman History*

DR. BAKER

This course deals especially with the government of the Roman Republic, the transition to Empire, and the causes of its decline. Two hours per week. *Two semester hours.*

* This course is not offered in 1961-1962

***21. The Middle East**

MR. DAVIS

The ancient civilization of Egypt, Babylonia, Persia, Greece, and the Byzantine Empire. The Moslem World and the Middle East in modern times. Three hours per week. *Three semester hours.* (Alternates with 5.)

***22. The Middle East**

MR. DAVIS

Prerequisite Course 21. A continuation of Course 21. Three hours per week. *Three semester hours.* (Alternates with 6.)

23. The Far East

DR. E. H. MILLER

History of the Asiatic Mainland and the Pacific Islands. Three hours per week. *Three semester hours.* (Alternates with 17.)

24. The Far East

DR. E. H. MILLER

A continuation of Course 23. Three hours per week. *Three semester hours.* (Alternates with 18.)

25. Russia

MR. DAVIS

Political and social history of Russia. Three hours per week. *Three semester hours.* (This course is given in alternate years.)

26. Canada

DR. ARMSTRONG

The development of the Canadian people from colonial status to nationhood. Three hours per week. *Three semester hours.* (Alternates with 4.)

27. History of Western Art

DR. ARMSTRONG

An introduction to the history of architecture, sculpture and painting presented by means of illustrated lectures and museum trips. Three hours per week. *Three semester hours.*

28. Geography

MR. DAVIS

Extensive study of the major regions of the world. The purpose is to analyze each from the standpoint of climate, natural resources, and economic problems, and to give the student a fairly detailed knowledge of the physical geography of the regions. Three hours per week. *Three semester hours.*

29, 30. Seminar in European History

STAFF

Preparation and discussion of research papers in European history. Open to third and fourth year students with permission of the instructor. Two consecutive hours per week. *Four semester hours.*

31, 32. Seminar in American History

STAFF

Preparation and discussion of research papers in American history. Open to third and fourth year students with permission of the instructor. Two consecutive hours per week. *Four semester hours.*

The requirement for History 29, Seminar in European History, may be met by students who complete a special summer course of European travel and research conducted by a member of the Department of History at Ursinus College.

* This course is not offered in 1961-1962.

ITALIAN

See under *Romance Languages*.

LATIN

See under *Classical Languages*.

MATHEMATICS

PROFESSOR MANNING

PROFESSOR DENNIS

ASSISTANT PROFESSOR SCHULTZ

The aims of the Mathematics Department are (1) the development of an appreciation of the role of mathematics in the progress of civilization, both past and present; (2) the development of the ability to do abstract, logical thinking by the analysis of the various deductive systems of mathematics; and (3) the development of special techniques which can be utilized in the related fields of physics, chemistry, biology, psychology and economics.

A student majoring in mathematics will take Mathematics 1a, 2a and 3, 4 in the first year; Mathematics 5, 6 and Physics 1, 2 (to satisfy the general requirement in science) in the second year. A student majoring in mathematics must elect a minimum of twelve additional hours from courses numbered 7 to 28 inclusive.

1. *Algebra*

DR. MANNING, DR. DENNIS, MISS SCHULTZ

A basic course introducing the student to some of the modern concepts in mathematics which are useful in present day applications of mathematics in many fields. Some of the topics introduced include Boolean algebra, symbolic logic, number systems, groups, finite and infinite fields, and algebraic functions. Three hours per week. *Three semester hours.*

2. *Trigonometry*

DR. MANNING, DR. DENNIS, MISS SCHULTZ

A continuation of Course 1. The general theory of functions is extended to include the trigonometric functions and their inverses, the logarithmic and exponential functions, analytic geometry and an introduction to probability theory and statistics. Three hours per week. *Three semester hours.*

1a. *College Algebra*

DR. MANNING

A review of fundamental manipulations; solving and graphing equations; mathematical induction; binomial theorem; proportion; progressions; laws of logarithms; probability; determinants; partial fractions; and series. Designed for students majoring in mathematics and physics and for those interested in engineering. Three hours per week. *Three semester hours.*

2a. *Plane and Spherical Trigonometry*

DR. MANNING

Trigonometric functions; inverse functions; solution of right and oblique triangles; use of slide rule; identities and equations; computations with logarithms; complex numbers; right spherical and oblique spherical triangles; applications to navigation and astronomy. Three hours per week. *Three semester hours.*

3. *Plane Analytic Geometry*

DR. DENNIS

This course is designed to acquaint the student with the analytic method of treating locus problems. The fundamental theorems on distance, angle, and area are shown to be invariant under translations and rotations. Linear, polynomial, rational, and algebraic functions are graphed and the conics are studied extensively, with respect to transformations and invariants. Three hours per week. *Three semester hours.*

4. *Solid Analytic Geometry*

DR. DENNIS

Higher plane curves; empirical equations; transcendental functions; tangents; pole and polar theory continue the analytic treatment in the plane. The course includes the plane and straight line in space, space curves and surfaces, with particular reference to the quadrics and ruled surfaces. Three hours per week. *Three semester hours.*

Prerequisite, Mathematics 3.

5. *Elementary Calculus*

DR. MANNING, MISS SCHULTZ

Functions; limits; differentiation and integration of algebraic and transcendental functions. Three hours per week. *Three semester hours.*

6. *Elementary Calculus*

DR. MANNING, MISS SCHULTZ

A continuation of Course 5. Applications of the calculus to problems in science and engineering. Three hours per week. *Three semester hours.* Prerequisite, Mathematics 5.

7. *Differential Equations*

DR. MANNING

Solution of first-order and first-degree equations; linear equations of higher order; complementary and particular solutions; integrating factors; operators; applications in the fields of chemistry and physics. *Offered in Spring Term.* Three hours per week. *Three semester hours.* Prerequisite, Mathematics 6.

9. *Advanced Calculus*

DR. DENNIS

Elementary functions for complex values of the variables; Taylor's series; partial differentiation and implicit functions; multiple integration; improper integrals; line integrals and functions of a complex variable. Three hours per week. *Three semester hours.* Prerequisite, Mathematics 6.

10. *Advanced Calculus*

DR. DENNIS

A continuation of Course 9. Gamma functions; Legendre polynomials; Bessel functions; elliptic integrals; Fourier series; calculus of variations. Three hours per week. *Three semester hours.* Prerequisite, Mathematics 9.

11. *Mathematics of Finance*

MISS SCHULTZ

Operation of interest in relation to the amortization of debts; creation of sinking funds; treatment of depreciation. Two hours per week. *Two semester hours.*

12. *Mathematics of Finance*

MISS SCHULTZ

A continuation of Course 11. Valuation of bonds; accumulation of funds in building-and-loan associations; elements of life insurance. Two hours per week. *Two semester hours.* Prerequisite, Mathematics 11.

13. *Mathematical Statistics*

DR. MANNING

Probability; statistical methods of studying data from the fields of economics, education and the natural sciences; graphs; averages; dispersion; sampling. Two hours per week. *Two semester hours.*

14. *Mathematical Statistics*

DR. MANNING

A continuation of Course 13. Regression and correlation; forecasting; quality control; production control; testing hypotheses; analysis of variance. Two hours per week. *Two semester hours.* Prerequisite, Mathematics 13.

*15. *Theory of Numbers*

DR. DENNIS

Theory of primes and divisibility conditions; simple continued fractions; congruences; Fermat's theorem; Wilson's theorem; quadratic residues; reciprocity law; linear indeterminate problems; Diophantine equations. Three hours per week. *Three semester hours.*

*16. *Theory of Finite Groups*

DR. DENNIS

Fundamental theorems of finite groups; permutation groups; groups of movement; Abelian groups; prime-power groups; isomorphisms and the composition-series; Galois fields and their applications to finite geometries; groups of linear substitutions; Galois theory of equations. Three hours per week. *Three semester hours.*

*18. *Modern Geometry*

DR. DENNIS

Similarity; theorems of Ceva and Menelaus; points, lines, and circles related to the triangle; Brocard's configuration; coaxial circles; inversion; poles and polars; cross-ratio; involution; Pascal's and Brianchon's theorems; ruler and compass constructions. Three hours per week. *Three semester hours.*

20. *Probability*

DR. MANNING

Simple and compound probability; repeated trials; runs; normal curve approximation; Bertrand's paradox; deMere's problem; St. Petersburg problem. Three hours per week. *Offered in Fall Term.* *Three semester hours.*

*21. *Vector Analysis*

DR. DENNIS

Elementary vector algebra and calculus with applications to geometry and physics; scalar and vector fields; gradient; divergence; curl; divergence theorem; Green's theorem; Stokes' theorem; coordinate systems and transformation theory; non-Euclidean manifolds. Three hours per week. *Three semester hours.* Prerequisite, Mathematics 6.

22. *Theory of Functions of a Complex Variable*

DR. DENNIS

Algebra of complex numbers; analytic functions; Cauchy-Riemann equations; conformal mapping; integrals of complex functions; Cauchy's theorem; power series; Taylor's theorem; Laurent's theorem; residues and poles; transformations; analytic continuation; Riemann surfaces. *Offered in Fall Term.* Three hours per week. *Three semester hours.* Prerequisite, Mathematics 6.

23, 24, 25, 26. *Problems*

DR. MANNING

A weekly set of problems from various fields. This course may be begun in any term and continued for as many as four terms. One hour per week. *One semester hour for each term.* Prerequisite, Mathematics 4 and 6.

27, 28. *Astronomy*

See *Physics*, Courses 11, 12.

* This course is not offered in 1961-1962.

35. *Modern Algebra*

DR. DENNIS

Theory of congruences; quadratic residues, theory of finite groups; algebraic fields; Galois theory of equations; integral domains; polynomial rings. Three hours per week. *Three semester hours.*

36. *Modern Algebra*

DR. DENNIS

A continuation of Course 35. Vectors and vector spaces; matrix theory; invariant factors and elementary divisors, linear associative algebras; quaternions; algebra of classes (Boolean Algebra). Three hours per week. *Three semester hours.*

MUSIC

PROFESSOR PHILIP

MISS SPANGLER

The program in music is designed to meet the needs of non-professional music students and to promote a wider knowledge and appreciation of the history, theory, and performance of great music. The program comprises classroom instruction and opportunities for individual and group participation.

A. THEORY OF MUSIC

1. *Elementary Harmony*

DR. PHILIP

A thorough foundation in the melodic, rhythmic, and harmonic elements of music; keys, scales, intervals, cadences, major and minor chords; rhythmic reading and dictation, time durations, and the study of compound and simple measures. Prerequisite, one year of piano study or of musical theory. Two hours per week. *Two semester hours.*

2. *Elementary Harmony*

DR. PHILIP

A continuation of Music 1. Prerequisite, Music 1. Two hours per week. *Two semester hours.*

B. APPRECIATION OF MUSIC

13. *Appreciation of Music*

DR. PHILIP

This course covers the early development of music through religious music, folk song and folk dance, and follows their progress to the larger forms of musical composition. Two hours per week. *Two semester hours.*

14. *Appreciation of Music*

DR. PHILIP

A continuation of Music 13. The further development of music is traced into the symphonic and operatic fields of composition. Prerequisite, Music 13. Two hours per week. *Two semester hours.*

C. HISTORY OF MUSIC

15. *History of Music*

DR. PHILIP

Introduction to choral and instrumental music of the ancient and medieval period. Two hours per week. *Two semester hours.*

16. *History of Music*

DR. PHILIP

A continuation of Music 15. This course deals with the music of the Eighteenth Century, the Romantic period, and the Twentieth Century. Prerequisite, Music 15. Two hours per week. *Two semester hours.*

17. *Opera and Orchestral Music*

DR. PHILIP

A detailed analysis of symphonic music. Two hours per week. *Two semester hours.*

18. *Opera and Orchestral Music*

DR. PHILIP

A detailed analysis of proven operatic compositions. Two hours per week. *Two semester hours.*

19. *Music Dramas of Richard Wagner*

DR. PHILIP

An intimate discussion and the detailed analysis of Wagner's works. Two hours per week. *Two semester hours.*

Course 19 alternates with Courses 17, 18.

D. MUSICAL ORGANIZATION

21a, 22a. *Band*

Participation in the marching and the concert band. Two hours per week. *Not a credit course.*

21b, 22b. *Band*

Second year. Continuation of first-year work. Two hours per week. *Not a credit course.*

21c, 22c. *Band*

Third year. Continuation of second-year work. Two hours per week. *Not a credit course.*

21d, 22d. *Band*

Fourth year. Continuation of third-year work. Two hours per week. *Not a credit course.*

27a, 28a. *Vocal Ensemble and Methods*

A study of the basic principles of ensemble technique, vocal characteristics, and various types of voices. Discussion and study of the musical literature of the different periods. Practical application of principles studied as well as participation with the Ursinus Meistersingers in public concerts. Two hours per week. *Not a credit course but a prerequisite for Music 27b, 28b.*

27b, 28b. *Vocal Ensemble and Methods*

Second year. Continuation of first-year work. Two hours per week. Credit of *one semester hour* to be awarded at the conclusion of the year.

27c, 28c. *Vocal Ensemble and Methods*

Third year. Concentration of second-year work. Two hours per week. Credit of *one semester hour* to be awarded at conclusion of the year.

27d, 28d. *Vocal Ensemble and Methods*

Fourth year. Continuation of third-year work. Two hours per week. *Not a credit course.*

Not more than twelve semester hours in Music may be counted toward graduation.

PHILOSOPHY

PROFESSOR MATTERN

ASSOCIATE PROFESSOR CREAGER

ASSISTANT PROFESSOR DAVID BAKER

The primary aim of the Department is to cultivate a sensitivity to criticism, to the

weighing of evidence, the drawing of inferences, and the becoming aware of latent assumptions.

The secondary aim is to have the student read some of the writings of the philosophers so as to see for himself how philosophical problems spring from common sense opinions. It is hoped that such training may better enable the student to integrate the knowledge he has acquired in other departments.

One three-semester-hour course in Philosophy is required of every student for graduation.

Courses in Philosophy are open to third-year and fourth-year students, with the exception of Course 6. Course 6 is open also for second-year students.

Courses 5 and 6 are designed for students who do not plan to elect advanced courses in Philosophy.

1. *Introduction to Philosophy*

DR. MATTERN

A preliminary course designed to give to the student orientation with reference to the field and problems of philosophy. Three hours per week. *Three semester hours.*

2. *Modern Philosophical Problems*

DR. MATTERN

This course is continuous with Course 1, but is a more intensive study of certain problems outlined in Course 1. Prerequisite, Course 1. Three hours per week. *Three semester hours.*

3. *History of Ancient and Medieval Philosophy*

DR. MATTERN

This course is designed to assist the student in his interpretation of modern thought-currents by means of a history of the evolution of reflective thought from Thales to Descartes. Three hours per week. *Three semester hours.*

4. *History of Modern Philosophy*

DR. MATTERN

This course is a continuation of Course 3, beginning with Descartes and tracing the modern development to present philosophical tendencies. Prerequisite, Course 3. Three hours per week. *Three semester hours.*

5. *Ethics*

DR. MATTERN

A study of the principles of moral judgment, with exposition and criticism of the more important theories concerning the basis of distinction between right and wrong conduct; the various problems of theoretical and practical ethics. Papers by students. Three hours per week. *Three semester hours.*

6. *Logic*

DR. MATTERN

A study of the guiding principles involved in correct thinking; the use of terms; classification; the nature of deductive inference with special reference to fallacious forms of reasoning as they receive expression in daily life; the canons of inductive inference; the basic concepts in scientific method. Three hours per week. *Three semester hours.* Course 6 is open to second-year students.

7. *Philosophy of Religion*

DR. CREAGER, DR. DAVID BAKER

A philosophical study of religious beliefs and practices in order to ascertain the nature and value of religion. Particular attention is given to questions involving the nature and reality of God, the problem of evil and suffering, free will, and immortality. Prerequisite, third-year standing. *Offered in both terms.* Three hours per week. *Three semester hours.*

PHYSICAL EDUCATION

See under *Health and Physical Education*.

PHYSICS

PROFESSOR HEILEMANN

ASSOCIATE PROFESSOR SNYDER

ASSISTANT PROFESSOR MARSTELLER

The courses in Physics are designed to furnish the student with a groundwork of as much of the material of physics as time will permit. In presenting this material stress is laid upon methods of analysis and presentation of ideas. It is hoped in this way to make the student conversant with the methods of Physics, to develop in him the ability to study independently and to transmit his ideas to others. In every course, and in the elementary course particularly, the primary aim is to make the subject meaningful to every intelligent student.

Students majoring in Physics must take the following courses: Physics 1, 2, 3, 4, 5, 6, 7, 8; Mathematics 1a, 2a, 3, 4, 5, 6, 7, 9, 10, 21; Chemistry 101, 102.

Students majoring in Physics who are preparing to teach in secondary schools may substitute courses in Education for the following courses: Physics 7, 8; Mathematics 21.

1. *General Physics*

DR. HEILEMANN, DR. SNYDER, MR. MARSTELLER

Elementary mechanics and heat. Physics is presented not only as a science having practical application to everyday life, but as an example in itself of general scientific method. Prerequisite, Mathematics 1, 2, or high-school trigonometry and a satisfactory rating in the Mathematical Aptitude section of the CEEB test or in some test of a similar nature. Although not a requirement, Mathematics 5 and 6 are strongly urged, to be pursued concurrently if not already completed. Three hours lecture and three hours laboratory per week. *Four semester hours.*

2. *General Physics*

DR. HEILEMANN, DR. SNYDER, MR. MARSTELLER

Elementary sound, light, electricity and magnetism. Prerequisite, Physics 1. Three hours lecture and three hours laboratory per week. *Four semester hours.*

Admission to advanced courses depends upon the quality of work done in the elementary course.

Students intending to elect any of the advanced courses are asked to confer with the instructor during the year prior to that in which the course is to be taken, in order that a satisfactory schedule may be arranged.

3. *Mechanics: Statics and Dynamics*

DR. HEILEMANN

Plane and space force systems; concurrent forces; moments; center of gravity; friction; motion; curvilinear motion; projectiles; D'Alembert's Principle; moment of inertia; equilibrium of a rigid body; kinematics; Newton's Laws; work and energy; harmonic motion rotation about a fixed axis; torsion pendulum; compound pendulum; coupled systems. Prerequisite, Mathematics 5 and 6. Three hours lecture and three hours laboratory per week. *Four semester hours.*

4. *Electricity and Magnetism*

DR. SNYDER

Gauss's Theorem; potential; capacity; electric and magnet circuit; Kirchhoff's Laws; inductance; alternating currents; electrical machinery; elements of electronics. Prerequisite, Mathematics 5 and 6. Three hours lecture and three hours laboratory per week. *Four semester hours.*

5. *Optics*

MR. MARSTELLER

Image formation; systems of lenses and mirrors; dispersion; spectra; interference and diffraction; polarization; origin of radiation; effects of radiation; applications. Three hours of lecture and three hours laboratory per week. *Four semester hours.*

6. *Sound*

DR. HEILEMANN

The nature of sound, the physical basis of music, speech, and hearing; acoustics of buildings; methods of sound transmission and reproduction, and study of distortion; diffraction and interference; applications. Three hours lecture and three hours laboratory per week. *Four semester hours.*

7. *Atomic Physics*

DR. SNYDER

The elementary charged particles; electromagnetic radiation; waves and particles; elementary theory of the hydrogen atom; atomic spectra and electron distribution; natural radioactivity; nuclear disintegration; nuclear energy. Prerequisite, Mathematics 5 and 6. Three hours per week. *Three semester hours.*

7a. *Laboratory in Atomic Physics*

DR. SNYDER

Laboratory work (optional) for Course 7. Three hours per week. *One semester hour.*

8. *Atomic Physics*

DR. SNYDER

Continuation of Course 7. Three hours per week. *Three semester hours.*

8a. *Laboratory in Atomic Physics*

DR. SNYDER

Laboratory work (optional) for Course 8. Three hours per week. *One semester hour.*

9. *Special Topics*

DR. HEILEMANN, DR. SNYDER, MR. MARSTELLER

Readings and laboratory work with conferences. The student, having chosen some field in which he is interested, is expected to become familiar with the special instruments and methods of measurement used in that field. Only students capable of independent work may elect this course. Prerequisite, Mathematics 5 and 6 and two years of college physics. *Credit according to work done.*

10. *Special Topics*

DR. HEILEMANN, DR. SNYDER, MR. MARSTELLER

Continuation of Course 9. *Credits according to work done.*

11. *Astronomy*

MR. MARSTELLER

Facts and theories concerning the appearance, dimensions, notions, and interrelations of celestial bodies. Prerequisite, Mathematics 1 and 2 or its equivalent and some knowledge of physics. Three hours per week. *Three semester hours.*

12. *Astronomy*

MR. MARSTELLER

Continuation of Course 11. Three hours per week. *Three semester hours.*

14. *Alternating Currents*

DR. SNYDER

Capacitive and self-inductive circuits; mutual induction; the alternating-current circuit; alternating-current power and power factor; divided circuits; application of

complex numbers; electro-magnetic waves. Prerequisites, Physics 4 and Mathematics 5 and 6. Three hours per week. *Three semester hours.*

POLITICAL SCIENCE

PROFESSOR E. H. MILLER

PROFESSOR PANCOAST

ASSISTANT PROFESSOR ZUCKER

The objectives of the Department of Political Science with relation to the general student are:

- (1) To help the student attain an appreciation of both the theory and the functioning of politics.
- (2) To aid the student in developing the faculty of critical thinking and objective attitudes.
- (3) "To teach those values that sustain faith in freedom."

The professional objectives are:

- (1) To prepare students for graduate work in political science and the law.
- (2) To prepare students for the examinations for both the domestic civil service and the foreign service.

In addition to History 1-2 and Political Science 1-2, which are required for graduation under the general college requirements, students majoring in Political Science must take an additional sixteen (16) hours of Political Science (Political Science 5, 6 and ten elective hours); History 13-14; Economics 3, 4; Sociology 1-2.

It is recommended that Political Science 1-2 be taken in the first year, Political Science 5, 6 and Economics 3, 4 in the second year, and History 13-14 in the third year.

1. *American Government*

DR. PANCOAST, DR. ZUCKER

An analysis of the structure and functions of American national and state governments. Three hours per week. *Three semester hours.*

2. *American Government*

DR. PANCOAST, DR. ZUCKER

Continuation of Course 1. Three hours per week. *Three semester hours.*

3. *Municipal Government and Administration*

DR. PANCOAST

The legal power and position of the city in our political system. Thorough consideration of forms and activities of city government. Three hours per week. *Three semester hours.*

4. *Political Parties*

DR. PANCOAST

Both structural description and functional analysis of American political parties. The organization, work, leaders, and place of political parties in our democracy are considered at length. Three hours per week. *Three semester hours.*

5. *Comparative Government*

DR. MILLER

A detailed comparison of the Cabinet and Presidential systems, as exemplified by England and the United States. Three hours per week. *Three semester hours.*

6. *Comparative Government*

DR. MILLER

The study is extended to other representative governments, including France, Germany, Italy, Russia and Japan. Three hours per week. *Three semester hours.*

7. *Political Theory*

DR. ZUCKER

Significant political ideals, forces, and concepts from Plato to the present. Three hours per week. *Three semester hours.*

8. *Constitutional Law*

DR. PANCOAST

Historical backgrounds and principles formulated by the United States Supreme Court receive special emphasis. In addition to a textbook, extensive use is made of case studies. Three hours per week. *Three semester hours.*

9. *Public Administration*

DR. PANCOAST

A survey of the field of public administration, emphasizing administrative organization, fiscal management, and personnel management. The administrative process is considered as a unit encompassing federal, state, and local administration. Three hours per week. *Three semester hours.*

10. *American Political Theory*

DR. ZUCKER

Main currents in American political thought from the seventeenth century to the present. Three hours per week. *Three semester hours.*

†11. *Seminar in Political Science*

DR. MILLER

Selected topics in international organization and international relations. Two hours per week. *Two semester hours.*

†12. *Seminar in Political Science*

DR. MILLER

Continuation of Seminar in Political Science 11. Two hours per week. *Two semester hours.*

*†13. *Seminar in Political Science*

DR. MILLER

International Law. The case-study method. Two hours per week. *Two semester hours.*

*†14. *Seminar in Political Science*

DR. MILLER

Continuation of Seminar in Political Science 13. Two hours per week. *Two semester hours.*

Courses 11, 12 alternates with Courses 13, 14.

PSYCHOLOGY

PROFESSOR TYSON

ASSOCIATE PROFESSOR FLETCHER

The Department of Psychology is guided in its offerings and activities by two sets of objectives: (1) For the student majoring in areas other than Psychology, the introductory course for all, and Abnormal Psychology and Mental Hygiene for many, endeavor to show the growth of modern psychology and an understanding of adjustments used in maintaining mental health; and (2) an attempt is made to present a

* This course is not offered in 1961-1962.

† Open only to third-year and fourth-year students.

composite view of the main phases of present-day psychology, which is based on a broad foundation in social science and the biological sciences.

Students majoring in Psychology must take the following courses: Biology 3, 21, 22; Mathematics 1-2, 13-14; Economics 3-4; Political Science 1-2 and Sociology 1-2; Psychology 1, 4, 8, 9, 10, 12, 14, 31, and 32. Students who plan to continue the study of Psychology at the graduate level are strongly urged to include in their schedules Mathematics 5-6; Biology 17-18; Philosophy 3-4 and Physics 1-2.

1. *Elementary Psychology*

DR. TYSON, DR. FLETCHER

An introductory study of mental life and accompanying types of human behavior. Three hours per week. *Three semester hours.*

Course 1 must be taken during the first semester of the second year by all students preparing to become teachers.

4. *Social Psychology*

DR. FLETCHER

A study of group action and of the group influences by which the individual is surrounded; tradition, custom, public opinion, and other psychological and social forces which affect individual judgment and action. Three hours per week. *Three semester hours. Permission of the instructor is required for admission to the course.*

8. *Mental Health and Abnormal Psychology*

DR. TYSON

The problem of mental health is treated under the following topics: The dynamics of human behavior, normal and abnormal reactions to frustration and conflict. Psychological, organic, and social causes of poor mental health. The roles played by the home, the school, and society in mental health. Additional topics include psycho-neuroses and functional psychoses, epilepsy, drug addiction, and alcoholism. Methods of prevention and treatment of mental illness are discussed. This course is given from the point of view of preventive mental hygiene. Three hours per week. *Three semester hours.*

9. *Educational and Psychological Tests and Measurements*

DR. FLETCHER

An introductory survey of the field of measurement in education, including measurement of intelligence and school results; main features of the technique of testing and test construction; types of tests and scales; evaluation; interpretation; use. Prerequisite, Courses 31, 32. Three hours per week. *Three semester hours. (The same course as Education 9.)*

10. *Elementary Experimental Psychology*

DR. FLETCHER

This course is designed to acquaint the student with laboratory techniques used in psychology. Limited to and required of all majors in psychology. Lectures, demonstrations, individual experiments and the preparation of scientific reports. Two hours lecture and four hours laboratory. *Four semester hours.*

12. *Psychology in Industry*

DR. FLETCHER

This course deals with the application of psychological techniques and principles to the problems of industry. Emphasis is given to individual differences, aptitudes and skills, job evaluation, merit rating, work methods, training programs, fatigue, accident control, safety education, incentives, employee attitudes, morale, the interview and related employment methods. Three hours per week. *Three semester hours. Permission of the instructor is required for admission to the course.*

14. *Seminar in Psychology*

DR. FLETCHER

A course designed to acquaint the student with current trends in theoretical and applied psychology. Emphasis will be given to the preparation and presentation of papers on selected topics which will vary from year to year. Open only to fourth-year students majoring in psychology. One hour per week. *One semester hour.*

31. *Educational Psychology—Growth and Development*

DR. TYSON

The nature of growth. The dynamics of personality development. The characteristics of physical, mental, emotional, and social growth from the prenatal period until old age. The development of attitudes, interests, and values. The ideal of an integrated personality. (*The same course as Education 31.*) Three hours per week. *Three semester hours.*

32. *Educational Psychology—Learning and Teaching*

DR. TYSON

The role of the teacher as a professional person. The basic learning theory needed by teachers. The nature and conditions of learning. The development of learning units. Individual differences in mental ability and their educational implications. Mental hygiene in the classroom. (*The same course as Education 32.*) Three hours per week. *Three semester hours.*

PUBLIC SPEAKING

ASSISTANT PROFESSOR KERSHNER

3. *Public Speaking*

DR. KERSHNER

Composition and delivery of various types of speeches, with group criticism and discussion. The class will be organized and conducted according to the rules of parliamentary procedure. Prerequisite, English Composition 1, 2. Two hours per week. *Two semester hours.*

4. *Public Speaking*

DR. KERSHNER

Continuation of Course 3. Prerequisite, Public Speaking 3. Two hours per week. *Two semester hours.*

5. *Debating*

DR. KERSHNER

This course is organized for both beginners and advanced students who are interested in debating in intramural and intercollegiate tournaments. Open to third-year students who have completed Public Speaking 3 and 4, or who have been members of the Debating Club for at least one year. The course may be repeated for credit in the senior year. One hour per week. *One semester hour.*

6. *Debating*

DR. KERSHNER

Continuation of Course 5. One hour per week. *One semester hour.*

Note: All students in the College may participate in the activities of the extra-curricular debating society without being enrolled in Courses 5 and 6.

RELIGION

ASSOCIATE PROFESSOR CREAGER
PROFESSOR DONALD BAKER
PROFESSOR ARMSTRONG

PROFESSOR MATTEN
ASSISTANT PROFESSOR SCHELLHASE
ASSISTANT PROFESSOR DAVID BAKER

The aim of the Department of Religion is to give opportunity for a scholarly and reverent study of religion, centering attention primarily upon the Hebrew-Christian tradition. The courses in the English Bible are considered basic to a liberal education. Philosophy of Religion, Church History, and Christian Classics are courses offered to afford opportunity for students to deepen their interest in the "heart truths" of religion. The department directs a religious program, led by students, which includes worship, service projects, counseling and discussion. The unique nature of our College lays responsibility upon every member of the faculty, administration, and student body to lend support to these objectives.

1. *Introduction to the Literature of the Bible: Old Testament* MR. SCHELLHASE

An appreciative and historical study of the Bible, with a view to discovering its origin, nature, and significance in the life of today. Three hours per week. *Three semester hours.*

2. *Introduction to the Literature of the Bible: New Testament* MR. SCHELLHASE
Three hours per week. *Three semester hours.*

*4. *Christian Classics* DR. CREAGER

Readings in the classics of Christian literature including the writings of such men as Augustine, St. Francis of Assisi, Thomas a Kempis, Fox, Law, Baxter, Woolman, and Temple. Three hours per week. *Three semester hours. (This course alternates in the Spring Term with Religion 6.)*

6. *History of the Christian Church* DR. CREAGER

A study of the development of the Christian church from the apostolic period to modern times, with a view to understanding the nature and extent of its contribution to society. Three hours per week. *Three semester hours.*

Course 4 alternates with Course 6.

The following related courses are recommended to students interested in the study of religion.

HISTORY

104. *The Age of the Reformation* DR. ARMSTRONG

PHILOSOPHY

5. *Ethics* DR. MATTEN

Three hours per week. *Three semester hours.*

PHILOSOPHY

7. *Philosophy of Religion* DR. CREAGER, DR. DAVID BAKER

Three hours per week. *Three semester hours.*

*This course is not offered in the Spring Term of 1962.

GREEK

8. *New Testament Greek*Three hours per week. *Three semester hours*

DR. DAVID BAKER

DR. DONALD BAKER

HISTORY

132. *Seminar in Church History*Two consecutive hours per week. *Two semester hours. Students intending to select this course are asked to confer with the instructor.*

DR. ARMSTRONG

ROMANCE LANGUAGES

PROFESSOR GARRETT

ASSOCIATE PROFESSOR C. DOANE

PROFESSOR R. DOANE

MR. SEELYE

MR. JORDANIA

Reading ability and an understanding of the foreign culture comprise the scope of the first two year's work.

Students who advance beyond courses numbered 4 receive further instruction in conversation, composition, and the literatures of the respective languages. The goal of this teaching is to develop faculties of critical and esthetic judgment.

FRENCH

French majors must meet the following requirements:

French 5, 6, 7, 15, 16; History 3, 4 or 5, 6. It is recommended that Latin 1, 2, 3, 4 (or equivalent, i.e., four years of Latin in secondary school) be taken.

One of the following courses: French 7, 8, 10;

Two of the following courses: French 11, 12, 13, 14.

1. *Elementary French*Three hours per week. *Three semester hours.*

DR. C. DOANE

2. *Elementary French*Prerequisite: French 1. Three hours per week. *Three semester hours.*

DR. C. DOANE

3. *Intermediate French*

DR. GARRETT, DR. R. DOANE, MR. JORDANIA

Prerequisite: French 2 or equivalent (i.e., satisfactory completion of two years of French in secondary school). Three hours per week. *Three semester hours.*

3a. *Intermediate French*

DR. GARRETT, DR. R. DOANE, MR. JORDANIA

For students planning further work in French. Prerequisite: French 2 or equivalent. Three hours per week. *Three semester hours.*

4. *Intermediate French*

DR. GARRETT, DR. R. DOANE, MR. JORDANIA

Prerequisite: French 3. Three hours per week. *Three semester hours.*

4a. *Intermediate French*

DR. GARRETT, DR. R. DOANE, MR. JORDANIA

Prerequisite: French 3a. Three hours per week. *Three semester hours.*

5. *Survey of French Civilization and Literature*

DR. GARRETT

The development of French life, arts and literature from the Middle Ages to the Revolution. Three hours per week. *Three semester hours.*

6. *Survey of French Civilization and Literature* DR. GARRETT
A continuation of course 5; from 1789 to the present. Three hours per week. *Three semester hours.*
- *7. *Rabelais, the Pleiade, Montaigne* DR. R. DOANE
Two hours per week. *Two semester hours.*
- *8. *Corneille, Racine* DR. R. DOANE
Two hours per week. *Two semester hours.*
9. *Moliere* DR. R. DOANE
Two hours per week. *Two semester hours.*
10. *Voltaire, Rousseau* DR. R. DOANE
Two hours per week. *Two semester hours.*
Courses 7 and 8 alternate with courses 9 and 10.
11. *Seminar in French Literature 1880-1860* DR. GARRETT
Three hours per week. *Three semester hours.*
12. *Seminar in French Literature* DR. GARRETT
Prerequisite: French 11. Three hours per week. *Three semester hours.*
- *13. *Seminar in French Literature since 1860* DR. GARRETT
Three hours per week. *Three semester hours.*
- *14. *Seminar in French Literature* DR. GARRETT
Prerequisite: French 13. Three hours per week. *Three semester hours.*
Courses 11 and 12 alternate with courses 13 and 14.
15. *Advanced Grammar* DR. C. DOANE
Two hours per week. *Two semester hours.*
16. *Oral French* DR. C. DOANE
Two hours per week and additional laboratory work. *Two semester hours.*
22. *Conversation* DR. GARRETT
Prerequisite: French 16 and permission of the instructor. Two hours per week. *Two semester hours.*

SPANISH

Spanish majors must meet the following requirements:

Spanish 5, 7, 8, 13, 14; History 17, 18 and 3, 4 or 5, 6. It is recommended that Latin 1, 2, 3, 4 (or equivalent, i.e., four years of Latin in secondary school) be taken.

1. *Elementary Spanish* MR. SEELYE
Three hours per week. *Three semester hours.*
2. *Elementary Spanish* MR. SEELYE
Prerequisite: Spanish 1. Three hours per week. *Three semester hours.*

* This course is not offered in 1961-1962.

3. *Intermediate Spanish* MR. JORDANIA
Prerequisite: Spanish 2 or equivalent (i.e., satisfactory completion of two years of Spanish in secondary school). Three hours per week. *Three semester hours.*
- 3a. *Intermediate Spanish* MR. JORDANIA
For students planning further work in Spanish. Prerequisite: Spanish 2 or equivalent. Three hours per week. *Three semester hours.*
4. *Intermediate Spanish* MR. JORDANIA
Prerequisite: Spanish 3. Three hours per week. *Three semester hours.*
- 4a. *Intermediate Spanish* MR. JORDANIA
Prerequisite: Spanish 3a. Three hours per week. *Three semester hours.*
- *5. *Advanced Grammar* MR. SEELYE
Two hours per week. *Two semester hours.*
- *6. *Commercial Spanish* MR. SEELYE
Two hours per week. *Two semester hours.*
7. *Spanish Literature since 1800* MR. SEELYE
Two hours per week. *Two semester hours.*
8. *Spanish Literature of the Golden Age* MR. SEELYE
Two hours per week. *Two semester hours.*
- *9. *Spanish American Literature* MR. SEELYE
Two hours per week. *Two semester hours.*
- *10. *Spanish American Literature* MR. SEELYE
Prerequisite: Spanish 9. Two hours per week. *Two semester hours.*
Courses 7 and 8 alternate with courses 9 and 10.
13. *Advanced Composition and Conversation* MR. SEELYE
Three hours per week. *Three semester hours.*
- *14. *Advanced composition and Conversation* MR. SEELYE
Three hours per week. *Three semester hours.*
Courses 5 and 6 alternate with courses 13 and 14.

RUSSIAN

Study of Russian will not fulfill the College general requirement of language for graduating.

1. *Elementary Russian* DR. C. DOANE
Essentials of grammar; elements of conversation; reading. Three hours per week. *Three semester hours.*
2. *Elementary Russian* DR. C. DOANE
Continuation of Russian 1. Emphasis upon reading and conversation. Three hours per week. *Three semester hours.*

*This course is not offered in 1961-1962.

3. *Intermediate Russian*

DR. C. DOANE

Grammar review, reading, composition, conversation. Three hours per week. *Three semester hours.*

4. *Intermediate Russian*

DR. C. DOANE

Continuation of Russian 3. Emphasis upon reading and conversation. Three hours per week. *Three semester hours.*

SOCIOLOGY

DR. J. A. MILLER

1. *Introduction to Sociology*

DR. J. A. MILLER

A course designed to give the student a more scientific understanding of man's social nature and of the social world in which he lives. In addition to fundamental concepts and theories particular attention is focused on problems arising from race relations and personality disorganization. *Not open to freshmen.* Three hours per week. *Three semester hours.*

2. *Introduction to Sociology*

DR. J. A. MILLER

A continuation of Sociology 1. Problems to which particular attention is given include urbanization, public opinion and propaganda, marriage and the family, and crime and delinquency.

Prerequisite, Course 1. Three hours per week. *Three semester hours.*

SPANISH

See under *Romance Languages*

SWEDISH

See under *Germanic Languages*

Departmental Requirements

CLASSICS (B.A.)

Adviser—PROFESSOR BAKER

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Pol. Sci. 1, 2 or	Philosophy 3
Hist. 1, 2 6	Eng. Lit. 3, 4 4	Econ. 3, 4 6	Greek 7 3
Greek 1, 2 9	Science 6	Latin or Greek 6	Latin or Greek 3
Latin 1, 2 or 3, 4	Psych. 1 3	Electives 18	Electives 21
or 5, 6 6	Greek 3, 4 6		
Elective 3	Latin 6		
Phys. Ed. 101, 102 —	Electives 3		
30	30	30	30

ECONOMICS AND BUSINESS ADMINISTRATION (B.A.)

Adviser—PROFESSOR BONE

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Psych. 1 3	Philosophy 3
Hist. 1, 2 6	Eng. Lit. 3, 4 4	Pol. Sci. 6	Econ. 8, 17, 21 (Ec.) (9)
Foreign Language 6	(or equiv.) 4	Econ. 15, 19 (Acct.)	or 13, 15 (Fin.) ... (6)
Science 6	Foreign Language 3, 4	or 10, 14 (Ec.)	or 20 (Acct.) ... (2)
Econ. 3, 4 6	(if not completed) .. 6	or 11, 12 (Fin.)	Electives to complete
Phys. Ed. 101, 102 —	Pol. Sci. 1, 2 6	or 23, 22 (Ind. Rel.) (6)	
	Econ. 6, 11, 12	Math. 13, 14 (Fin.	
	(Acct.) (9)	or Acct.) (4)	
	or 9 (Ec.) (3)	Econ. (Any courses)	
	or 6, 9, 10 (Fin.) .. (9)	(Acct.) (8)	
	or 5, 18 (Ind. Rel.) (6)	(Ec.) (6)	
	Electives to complete	(Fin.) (3)	
		(Ind. Rel.) (12)	
		Electives to complete	
30	30	30	30

ENGLISH (B.A.)

Adviser—PROFESSOR YOST

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Philosophy 3	Eng. Lit. 9, 10 or
Hist. 1, 2 6	Eng. Lit. 3, 4 4	Eng. Lit. 19, 20 or	7, 8 6
Science 6	Eng. Lit. 11, 12 4	9, 10 6	Electives 24
Foreign Language 6	Foreign Language 3, 4	Hist. 13, 14 6	
Econ. 3, 4 or	(if not completed) .. 6	Electives 15	
Pol. Sci. 1, 2 6	Psych. 1 3		
Phys. Ed. 101, 102 —	Hist. 9, 10 or 11, 12 .. 6		
	Electives 5		
30	30	30	30

GERMAN (B.A.)

Adviser—PROFESSOR HARTZELL

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Ger. 5, 6 (if not	Ger. 9, 10 or
Hist. 1, 2 6	Eng. Lit. 3, 4 4	completed) 6	7, 8 4
Science 6	Psych. 1 3	Ger. 7, 8 or 9, 10 4	Ger. 13, 14 or
Ger. 1, 2 or 3, 4 6	Econ. 3-4 or	Ger. 11, 12 or 13, 14 .. 4	11, 12 4
Other Language 1, 2	Ger. 3, 4 or 5, 6 6	Additional language .. 6	Additional language .. 6
or 3, 4 6	Other Language 3, 4	Electives 10	Philosophy 3
Phys. Ed. 101, 102 —	(if not completed) .. 6		Electives 13
	Electives 3		
30	30	30	30

DEPARTMENTAL REQUIREMENTS

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HEALTH AND PHYSICAL EDUCATION (B.S.)

Adviser—PROFESSOR MINNICH

First Year	Credits	Second Year	Credits
Eng. Comp. 1, 2	3 3	Eng. Comp. 3, 4	1 1
Hist. 1, 2	3 3	Biology 17, 18	2 2
Foreign Language 3, 4	3 3	Ed. 2	3 3
Biology 3, 4	3 3	Ed. 31	3 3
Phys. Ed. 31, 32	3 3	Ed. 32	3 3
Phys. Ed. 301, 302	2 2	Ed. 48	3 3
		Phys. Ed. 43	3 3
		Phys. Ed. 44	2 2
		Phys. Ed. 303, 304	2 2
		Psych. 1	3 3
		Electives	3 3
	17 17		17 16
	34		33
Third Year	Credits	Fourth Year	Credits
Eng. Lit. 3, 4 or equiv.	2 2	Ed. 5	8 8
Econ. 3, 4 or Pol. Sci. 1, 2	3 3	Ed. 44	3 3
Philosophy	3 3	Phys. Ed. 61, 62	3 2
Ed. 48 (H. & P.E.)	1 1	Phys. Ed. 64	3 3
Phys. Ed. 51, 52	2 2	Phys. Ed. 307, 308	1 1
Phys. Ed. 54	2 2	Psych. 8	3 3
Phys. Ed. 55, 56	2 2	Electives	3 3
Phys. Ed. 57, 58	2 2		
Phys. Ed. 305, 306	2 2		
	16 16		15 15
	32		30

HISTORY (B.A.)

Adviser—PROFESSOR ARMSTRONG

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2	Eng. Comp. 3, 4	Philosophy	History
Hist. 1, 2	Eng. Lit. 3, 4	Sociology	Electives
Science	(or equiv.)	Hist. 3, 4 or	
Foreign Language	Foreign Language 3, 4	5, 6 or 7, 8	
Pol. Sci. 1, 2	(if not completed)	Hist. Seminar	
Phys. Ed. 101, 102	Psych. 1	Electives	
	Econ. 3, 4		
	Hist. 13, 14		
	Electives		
30	30	30	30

MATHEMATICS (B.S.)

Adviser—PROFESSOR MANNING

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2	Eng. Comp. 3, 4	Philosophy	Math.
Hist. 1, 2	Eng. Lit. 3, 4	Psych. 1	Electives
Foreign Language	(or equiv.)	Math.	
Math. 1a, 2a	Foreign Language 3, 4	Electives	
Math. 3, 4	(if not completed)		
Phys. Ed. 101, 102	Econ. 3, 4 or		
	Pol. Sci. 1, 2		
	Physics 1, 2		
	Math. 5, 6		
30	32	30	28

POLITICAL SCIENCE (B.A.)

Adviser—PROFESSOR E. H. MILLER

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2	Eng. Comp. 3, 4	Philosophy	Pol. Sci.
Hist. 1, 2	Eng. Lit. 3, 4	Sociology 1, 2	Electives
Science	(or equiv.)	Hist. 13, 14	
Foreign Language	Foreign Language 3, 4	Pol. Sci.	
Pol. Sci. 1, 2	(if not completed)	Electives	
Phys. Ed. 101, 102	Psych. 1		
	Econ. 3, 4		
	Pol. Sci. 5, 6		
	Electives		
30	30	30	30

PSYCHOLOGY (B.S.)

Adviser—PROFESSOR TYSON

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Sociology 1, 2 6	Philosophy 3
History 1, 2 6	Eng. Lit. 3, 4 4	Math. 13, 14 4	Psych. 9, 4 6
Foreign Language 6	(or equiv.) 4	Econ. 3, 4 or 6	Psych. 14 1
Bio. 3, 4 6	Foreign Language 3, 4	Pol. Sci. 1, 2 6	Psych. 10 4
Econ. 3, 4 or 6	(if not completed) .. 6	Psych. 31, 32 6	Psych. 12 3
Pol. Sci. 1, 2 6	Math. 1, 2 6	Electives 8	Electives 13
Phys. Ed. 101, 102 —	Psych. 1, 8 6		
	Bio. 21, 22 4		
	Electives 2		
30	30	30	30

ROMANCE LANGUAGES

FRENCH (B.A.)

Adviser—PROFESSOR HARTZELL

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Econ. 3, 4 or 6	Electives 30
Hist. 1, 2 6	Eng. Lit. 3, 4 4	Pol. Sci. 1, 2 6	
Science 6	Psych. 1 3	Philosophy 3	
Fr. 3a, 4a 6	Fr. 5, 6 6	Hist. 3, 4 or 5, 6 6	
Foreign Language 6	Fr. 9, 10 or 15, 16 4	Fr. 11, 12 or 6	
Phys. Ed. 101, 102 —	Foreign Language 3, 4	13, 14 6	
	(if not completed) .. 6	Fr. 9, 10 or 15, 16 4	
	Electives 5	Electives 5	
30	30	30	30

SPANISH (B.A.)

Adviser—PROFESSOR HARTZELL

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 4	Econ. 3, 4 or 6	Electives 30
History 1, 2 6	Eng. Lit. 3, 4 4	Pol. Sci. 1, 2 6	
Science 6	Psych. 1 3	Philosophy 3	
Spanish 3a, 4a 6	Spanish 5 2	History 3, 4 or 5, 6 6	
Foreign Language 6	Foreign Language 3, 4	Spanish 7, 8 4	
Phys. Ed. 101, 102 —	(if not completed) .. 6	Spanish 13, 14 6	
	History 17, 18 6	Electives 5	
	Electives 7		
30	30	30	30

SCIENCES

BIOLOGY (B.S.)

Adviser—PROFESSOR WAGNER

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Philosophy 3	Bio. 7, 8 or 3
Foreign Language 6	Eng. Lit. 3, 4 4	Psychology 3	Bio. 19 (Bio. 20 also recommended) .. 8 or 4
Hist. 1, 2 or 6 or 8	(or equiv.) 4	Pol. Sc. 1, 2 or 6	Bio. 21, 22, or both 4 or 2
Chem. 101, 102 8	Foreign Language 3, 4	Ec. 3, 4 6	Bio. 6 (if not pre-professional) 3
Bio. 103, 104 8	(if not completed) .. 6	Bio. 7, 8 or 6	Bio. 23, 24 Seminar recommended 2
Math. 1, 2 6	Chem. 101, 102 or 8	Bio. 19 (Bio. 20 also recommended) .. 8 or 4	Bio. 25 or 26 recommended 4
Phys. Ed. 101, 102 —	Hist. 1, 2 8	Electives 10 to 14	Electives 9 to 15
	Physics 1, 2 8		
	Electives 4 to 10		
32 to 34	30 to 32	30	28 to 30

DEPARTMENTAL REQUIREMENTS

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CHEMISTRY (B.S.)

Adviser—PROFESSOR STURGIS

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Econ. 3, 4 or	Chem. 109, 110 8
Hist. 1, 2 6	Eng. Lit. 3, 4 4	Pol. Sci. 1, 2 6	Chem. 121 1
Fr. or Ger. 1, 2 6	Fr. or Ger. 3, 4 6	Chem. 105 4	Chem. 117 3
or 3, 4 6	(if not completed) .. 6	Chem. 107a, 108a 10	Chem. 118 3
Chem. 101, 102 8	Chem. 103 4	Physics 1, 2 8	Electives 15
Math. 1, 2 6	Chem. 104 4	Psych. 1 3	
Phys. Ed. 101, 102 —	Math. 5, 6 6	Phil. 3	
	Bio. 3, 4 6		
	32	34	30

PHYSICS (B.S.)

Adviser—PROFESSOR HEILEMANN

First Year	Second Year	Third Year	Fourth Year
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Econ. 3, 4 or	Philosophy 3
Foreign Language 6	Eng. Lit. 3, 4 4	Pol. Sci. 1, 2 6	Physics 7, 8 6
Physics 1, 2 8	Foreign Language 3, 4 6	Psych. 1 3	Physics 7a, 8a 2
Math. 1a, 2a 6	(if not completed) .. 6	Physics 5, 6 8	Math. 21, 22 6
Math. 3, 4 6	Hist. 1, 2 6	Math. 7 6	Electives 13
Phys. Ed. 101, 102 —	Physics 3, 4 8	Math. 9, 10 6	
	Math. 5, 6 6	Chem. 101, 102 8	
	32	34	30

SCIENCES (B.S.)

Preparation for Secondary School Teaching in the Sciences

I. CONCENTRATION IN BIOLOGY

Advisers—PROFESSOR WAGNER AND
PROFESSOR TYSON

First Year	Credits	Second Year	Credits
Biology 103, 104 4	4	Physics 1, 2 4	4
Mathematics 1, 2 3	3	or	or
History 1, 2 3	3	Chemistry 1, 2 3	3
English Comp. 1, 2 3	3	Biology 17, 18 2	2
Language 1, 2 or 3, 4 3	3	Biology 21, 22 1	1
Phys. Ed. 101, 102 —	—	English Comp. 3, 4 1	1
	16	English Lit. 3, 4 2	2
	32	Language 3, 4 or	
		Pol. Sci. 1, 2 3	3
		or	
		Economics 3, 4 3	3
		Psychology 1 3	3
		Education 2 3	3
			14 or 15
			14 or 15
			28 or 30
Third Year	Credits	Fourth Year	Credits
Biology 17, 18 2	2	Biology 19 4	4
or		Education 5 8	8
Biology 21, 22 3	3	Education 44 3	3
Biology 6 3	3	Electives 6	9
History 16 3	3		14
Philosophy 3	3		16
Education 31, 32 3	3		30
Education 48 3	3		
Electives 3	2		
or			
Electives 5	5		
	14 or 16		
	30-32		

II. CONCENTRATION IN CHEMISTRY

<i>First Year</i>	<i>Credits</i>
Chemistry 101, 102	4 4
English Comp. 1, 2	3 3
Language 1, 2 or 3, 4	3 3
History 1, 2	3 3
Mathematics 1, 2	3 3
Phys. Ed. 101, 102	- -
	16 16
	32
	16 15
	or 16
	31-32

<i>Third Year</i>	<i>Credits</i>
Chemistry 103, 104	4 4
Economics 3, 4	
or	
Pol. Sci. 1, 2	
Education 31, 32	3 3
Education 48	3 3
Physics 1, 2	4 4
Electives	3 3
	17 17
	34

III. CONCENTRATION IN PHYSICS

<i>First Year</i>	<i>Credits</i>
English Comp. 1, 2	3 3
Language 1, 2 or 3, 4	3 3
Phys. Ed. 101, 102	- -
Physics 1, 2	4 4
Mathematics 1a, 2a	3 3
Mathematics 3, 4	3 3
	16 16
	32

<i>Third Year</i>	<i>Credits</i>
Economics 3, 4	
or	
Pol. Sci. 1, 2	
Education 31, 32	3 3
Education 48	3 3
Physics 7, 8	3 3
Mathematics 9, 10	3 3
Electives	3 3
	15 15
	30

Advisers—PROFESSOR STURGIS AND
PROFESSOR TYSON

<i>Second Year</i>	<i>Credits</i>
Biology 3, 4	3 3
Chemistry 107, 108	4 4
Education 2	3 3
English Comp. 3, 4	1 1
English Lit. 3, 4	2 2
Language 3, 4	3 3
or	
Philosophy 6	(3)
and	
Biology 21	(2)
Psychology 1	3

<i>Fourth Year</i>	<i>Credits</i>
Biology 22	2
Education 5	8
History 16	3
Physics 11, 12	3 3
Philosophy 7 (if	3
Phil. 6 is not taken	
in second year)	
Education 44	3
Electives	3
	14 14
	28

Advisers—PROFESSOR HEILEMANN AND
PROFESSOR TYSON

<i>Second Year</i>	<i>Credits</i>
English Comp. 3, 4	1 1
English Lit. 3, 4	2 2
Language 3, 4	
or	
History 1, 2	
Education 2	3 3
Psychology 1	3
Physics 3, 4	4 4
Mathematics 5, 6	3 3
	16 16

<i>Fourth Year</i>	<i>Credits</i>
Philosophy 6	3
History 1, 2	3 3
Education 9 (N. J.)	3
Education 5	8
Chemistry 101, 102	4 4
Education 44	3 3
	15 16
	31

FIVE YEAR COMBINED LIBERAL ARTS — ENGINEERING PROGRAM

URSINUS COLLEGE (B.A.) THE UNIVERSITY OF PENNSYLVANIA (B.S. in Eng.), AND THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY (B.S. in Eng.) *Adviser*—PROFESSOR HEILEMANN

PLAN I FOR ELECTRICAL, CIVIL OR MECHANICAL ENGINEERS

<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>	<i>Fourth and Fifth Years</i>
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Hist. 1, 2 6	to be completed at the University of Pennsylvania or the Massachusetts Institute of Technology
Foreign Language 3, 4 6	Eng. Lit. 3, 4 4	Econ. 3, 4 6	
Chem. 1, 2 6	Psych. 1 3	Physics 7, 14 8	
Physics 1, 2 8	Philosophy 3	Math. 7 3	
Math. 1a 3	Physics 3, 4 8	Math. 9, 10 6	
Math. 3, 4 6	Drafting 3	Electives 6	
Phys. Ed. 101, 102 —	Descrp. Geom. 3		
	Math. 5, 6 6		
35	32	35	

PLAN II FOR CHEMICAL OR METALLURGICAL ENGINEERS

<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>	<i>Fourth and Fifth Years</i>
Eng. Comp. 1, 2 6	Eng. Comp. 3, 4 2	Philosophy 3	to be completed at the University of Pennsylvania or the Massachusetts Institute of Technology
Chem. 101, 102 8	Eng. Lit. 3, 4 4	Psych. 1 3	
Foreign Language 3, 4 6	Hist. 1, 2 6	Econ. 3, 4 6	
Math. 1a 3	Chem. 103 4	Chem. 105 4	
Math. 3, 4 6	Chem. 104 4	Physics 3, 4 8	
Electives 3	Physics 1, 2 8	Math. 7 3	
Phys. Ed. 101, 102 —	Drafting 3	Math. 9, 10 6	
	Math. 5, 6 6	Electives 3	
32	37	36	

STUDENTS WHO WISH TO PREPARE FOR TEACHING, THE MINISTRY, OR FOR ADMISSION TO PROFESSIONAL SCHOOLS OF MEDICINE, DENTISTRY, VETERINARY MEDICINE, LAW, OR NURSING SHOULD REFER TO PAGES 28 TO 30 WHERE SUGGESTED MAJORS ARE INDICATED.



Prizes, Honors, Degrees

AWARDED IN 1960

The Elizabeth Rockefeller McCain Prize—William Ray Mast, '62
The Duttera Prize—Linda Lee Pfeiffer, '62
The Peters Prize—Robert Henry Kreisinger, '60
The Ursinus Women's Club Prize—Susan Wagner, '60
The Ursinus Circle Prize—Catherine Ann Nicolai, '61
The Ellen Beaver Schlaybach Memorial Prize—Linda Wolf MacFarland, '60
The George Ditter Prize—Beverly Hinchcliffe Garlick, '60
The Whittan Prize—Elizabeth Maude Yost, '63
The Edwin M. Fogel Prize—Robert G. Hunsicker, '60
The Elizabeth B. White Prize—Marla Joan Shilton, '60
The J. Harold Brownback Prize—John Nevins Forrest, '60
The Robert Trucksess Prize—David John Wright, '60
The Ehret Prize—Robert Alan Peterson, '60
The Ronald C. Kichline Athletic Prize—Vernon William Morgan, '61
The Cub and Key Honor Society Scholarship—Clifford Carroll Kuhn, '63

HONORS

GRADUATION HONORS

Valedictorian: Linda Marilyn Wolf MacFarland
Salutatorian: Beverly Hinchcliffe Garlick

MAGNA CUM LAUDE

Beverly Hinchcliffe Garlick

Linda Marilyn Wolf MacFarland

CUM LAUDE

Alice Clara Mills Dempsey
Robert Henry Kreisinger, Jr.

Marla Joan Shilton
Nancy Carolyn Springer

DEPARTMENTAL HONORS

PSYCHOLOGY: Sara Louise Leshner

SPANISH: Beatrice Hauer

DEGREES, 1960

DOCTOR OF DIVINITY (Honorary)

Alfred Clinton Bartholomew

George Ambrose Stauffer

DOCTOR OF SCIENCE (Honorary)

Robert Lake Bateman

DOCTOR OF HUMANE LETTERS (Honorary)

Douglas Horton

DOCTOR OF LAWS (Honorary)

Frederick Moore Binder
Hermann Frederick Eilts
Ralph Eby Heiges

Warren Keener Hess
Rolland Allen Ritter
Hugh Scott

ASSOCIATE IN BUSINESS ADMINISTRATION

Frank Clyde Barnes
 John Richard Barr
 Michael Joseph Carlini, Jr.
 Joseph DeSales Collins
 Elwood William Cooper
 Robert Alex Corbett
 Howard Bernard Gehman

Edwin Albert Gottshall
 Thomas Albert Kocher, Jr.
 Harold Richard Kuser
 Frederick Eber Lobb
 Ronald Edward Marshall
 Elmer George Reiter, Jr.
 Gerald Edwin Weaver

BACHELOR OF ARTS

Fritz Herman Ahlfeld
 George Armstrong, Jr.
 Ronald Sidney Avery
 Helen Overholt Baile
 Barbara Anne Bates
 John Francis Bauman
 Nancy Millicent Blickenderfer
 Richard Charles Boggio
 Bernard Brown, II
 George Warren Busler, Jr.
 James Daniels Campbell, II
 Ellen Craig Clark
 William MacBride Clelland, Jr.
 Eugene John Cook
 Watson Shallcross Coverdale, Jr.
 Temple Fisk Critchfield
 Bruce Kenneth Drobnik
 Donald Kriebel Ehring
 Frederick Foster
 Calvin William Fox, Jr.
 Beverly Hinchcliffe Garlick
 Martha Jane Gilinger
 Arthur Lynne Graburn, III
 Elmer Haigh, Jr.
 Antje Anita Harries
 Beatrice Hauer
 Naomi Ruth Herre
 Paul Henry Hill, Jr.
 Susan Marie Hillard
 Barbara Jane Holtzman
 Philip Edward Houser
 Robert Gerald Hunsicker
 Ann Holbrook Hurd
 Laverne Ray Joseph

Patricia Ann Karppinen
 Clara Virginia Keller
 Gail Diane Kleckner
 Joyce Virginia Krasley
 David Ellsworth Lindemuth
 Robert Henry Lippincott, Jr.
 Wilson Robert Lorentz
 Joseph Wendell Lutz
 Mary Jane MacMullan
 Anthony Nicholas McGrath
 Anne Markland McWilliams
 Margaret Ann Miller
 James Carlton Morrison
 Keith Barry Moyer
 Martha Jonet Paxson
 Helen Virginia Pearson
 Sandra Lee Perfetti
 George Polins, III
 Dorothy Lynn Ransom
 Philip Sterling Rowe
 Judith Carol Sanders
 Edward Anthony Savastio
 Richard Ronald Saylor
 Katrinka Erdman Schnabel
 Marla Joan Shilton
 Robert John Shippee
 Sydney James Small
 Nancy Carolyn Springer
 Gregory George Stagliano
 Alan Walter Stoll
 Thomas Joseph Stoudt, Jr.
 Sarah Louise Struve
 Robert Bruce Turnbull
 Donald Briggs Watson

Robert Cole Watson
Charlotte Stephanie Weiss
James William Wenhold
Glenn Robert White

Judith Jeanne Whittam
Loretta May Witmer
David John Wright
Theodore David Zeigler

BACHELOR OF SCIENCE

Carl Clement Anderson
Faye Hunsberger Bardman
Helmuth Heinrich Behling
Greta Cornelia Below
Barbara Anne Brecht
Edward Allen Brookes
Robert Winfred Brumfiel, Jr.
Nancy Ann Buchanan
Andrew Godfrey Carter
Tristram Coffin
Margaret Mary Cramer
Sandra Critchley
Gail Catherine Cummings
Kenneth Edwin Dages
Carol Helen Davis
Linda Lee Dean
Carolyn Hague Dearnaley
John Jacob Deisinger
Alice Clara Mills Dempsey
Linwood Edmund Drummond
Donald Matthew Durr
Thomas Karl Engel
Lorraine Kathryn Day Fay
Linda Barbara Foard
John Nevins Forrest, Jr.
Carolyn Irene Forry
Robert William Fulton
Carol Ann Gingery
Warren Robert Gould
Eugene Tucker Hake
Sandra Lee Henne
John Edwin Innes
Janice Whitehead Johannesen
Susan Hamilton Johnson
Beverly Elaine Kallenbach
Edson Theodore Kershner
Robert Henry Kreisinger, Jr.
Jeanne Esther LeCato

Sara Louise Leshner
Philip Gregory Lewis, III
Linda Marilyn Wolf MacFarland
Georgie Lucretia Magness
Barbara McClure
Robert William Megill
Charles Angelo Messa, Jr.
Joanna Victoria Miller
Elise Ida Moennig
Mary Lou Mook
George Markley Morris, Jr.
Alice Ann Moyer
Judith Brinton Moyer
Jon Fritz Myers
Mary Christine Pennington
Robert Alan Petersen
Loretta Frances Podolak
Joseph Thomas Procak
Joan Refford
Ingrid Elizabeth Reiniger
Henry Richmond, IV
Sandra Lee Rinehart
Arlene Joan Rittweiler
William John Robson
Barbara Ann Romig
Katherine Marie Scheffley
Robert Oliver Scheideler
Carol Elizabeth Schmidt
Joanne Lucille Scholl
John Schumacher, Jr.
Ronald Hollingsworth Shissler, Jr.
Richard George Shoemaker
Margaret Florence Smith
Gail Ann Snyder
Louise Bloom Sperber
John Elder Steele
Sara Carhart Abel Stuebing
Andrew Grier Street

Elizabeth Cecelia Tadley
Ronald Thomas Tempest
Charles Frederick Thompson, Jr.
Harris Ira Treiman
Charles Gary Wade

Susan Wagner
Thomas Michael Wendel
Marlene Mae White
Thomas William Winchester
Willard Roger Zindel, Jr.



List of Students, 1960-1961

Abele, Wilbert D.	Audubon, N. J.	Baumgard, Carolyn J.	Skippack
Adams, Linda C.	Palmyra	Beacher, Dennis B.	Springfield
Adams, Stephen F.	Broomall	Bealer, Robert H., Jr.	Quakertown
Aitken, Alexander R.	New York, N. Y.	Bean, J. David	Creamery
Albright, Kent H.	Harleysville	Beekey, Cyrus E., Jr.	Kutztown
Alderfer, Mrs. Rae H.	Souderton	Behler, Katherine C.	York
Aldinger, Richard W.	Media	Behler, Marion A.	Allentown
Alexander, Georgia	Telford	Belmonte, Elizabeth J.	Neptune City, N. J.
Alexander, Wade A.	Hatboro	Bender, Barbara A.	Stratford, N. J.
Alford, Leslie M.	West Chester	Benedini, Judith A.	New York, N. Y.
Allebach, Richard S.	Lititz	Benfield, Jeanette M.	Alburtis
Allen, David W.	Norristown	Benner, Cynthia J.	Roselle Park, N. J.
Allen, Robert J.	Scranton	Bennett, Robert E., Jr.	Princeton, N. J.
Alspach, Frances A.	Lancaster	Benson, Robert W.	Hatboro
Altomose, Alma K.	Stroudsburg	Bentley, Carol L.	Huntingdon Valley
Alwine, Harry M.	Chamblee, Ga.	Berger, Jane	Danville, Ill.
Andes, Eugene B.	Lemoine	Berlinger, Carl P.	Glenside
Andres, Susan E.	Bridgeton, N. J.	Berlitz, Brenda L.	Hazleton
Andrews, Arlene E.	Coatesville	Berman, Nancie L.	Westwood, N. J.
Andrews, Harry M.	Moorestown, N. J.	Bernstein, Michael R.	Brooklyn, N. Y.
Antenson, Joseph E.	Philadelphia	Bethke, Doris E.	Trenton, N. J.
Aregood, Robert G.	Orwigsburg	Beyer, David M.	Norristown
Armstrong, Judith A.	Scranton	Bibbs, Barbara E.	Collegeville
Bachman, Richard C.	Bethlehem	Bingemann, Elsa H.	Marlton, N. J.
Baggs, Robert N., Jr.	Haddonfield, N. J.	Bisbee, Prudence H.	Burlington, N. J.
Baldwin, Linda H.	Norristown	Blew, Linda N.	Lehighton
Banks, Elizabeth B.	Rockville Center, N. Y.	Blewett, Michael W.	Bryn Mawr
Banning, Mrs. Rita C.	Collegeville	Bloom, Geoffrey B.	Needham, Mass.
Bardusch, Joan F.	Brightwaters, N. Y.	Blum, Helen E.	York
Barker, Ruth A.	Frackville	Bobb, John S.	Philadelphia
Barnaby, William H., Jr.	Gibbstown, N. J.	Boehm, Earl W.	Philadelphia
Barr, Francia	Reading	Boehner, Eleanor A.	Richboro
Barrett, James P.	Easton	Bogel, Barbara S.	Bayport, N. Y.
Barrow, Robert R.	Ringtown	Bonekemper, Harold G., III	Lansdale
Bastow, Sally A.	Ambler	Bonner, David W.	Philadelphia
Bateman, William E.	Hartsville	Borak, Jon M.	Gary, Ind.
Bates, Henry M.	Hatfield	Boris, Michael Z.	Philadelphia
Bauerle, Joan C.	Douglasville	Born, Patricia A.	Philadelphia
Bauman, Fred W., Jr.	Philadelphia	Borthwick, Carol A.	Glen Ridge, N. J.
Bauman, John F.	Philadelphia	Bortz, Hettie E.	Rockville, Md.
		Bosniak, Jay B.	Philadelphia

Bottiglier, Elmeretta J.	New Cumberland	Carter, Gilliam R.	Staten Island, N. Y.
Bowman, James C.	Lebanon	Cassel, Ronald P.	Quakertown
Boyd, Maynard E.	Shenandoah	Chandler, Dorothy A.	Peekskill, N. Y.
Boyer, Carolyn G.	Ocean City, N. J.	Chandler, Judith	North Plainfield, N. J.
Boyer, Janice M.	King of Prussia	Chase, John R.	Manville, N. J.
Boyer, John C.	Philadelphia	Christensen, David W.	Bellmawr, N. J.
Boyer, Winfield C.	Collegeville	Christman, Roy B.	Lehighton
Boyle, William D.	Audubon	Chuboda, Michael J.	Bridgeport
Brackin, George G.	Glenside	Church, Joan M.	Newtown
Brackin, John T.	Glenside	Clark, Jeffery S.	Haddonfield, N. J.
Brackin, Philip S.	Glenside	Clarke, Robert C.	Darby
Bradbury, William C.	Flourtown	Clayton, David M.	Philadelphia
Briggs, William R.	Philadelphia	Claytor, Norris V.	Spring House
Brill, Nancy K.	Media	Clemens, Jon K.	Telford
Brindley, Priscilla M.	Merchantville, N. J.	Clouser, Robin A.	Havertown
Brinton, Gail M.	Drexel Hill	Coblentz, Marcia K.	Wyomissing
Brintzenhoff, Alton L., Jr.	Lyons Station	Cohen, M. Suzanne	Chester
Brittain, Roger D.	Trenton, N. J.	Colasanti, James N.	Stowe
Broselow, Robert J.	Franklinville, N. J.	Colflesh, Wayne L.	Collegeville
Brown, Alan W.	Sellersville	Conn, Curtis B.	Cornwells
Brown, Charlotte E.	Philadelphia	Conn, David J.	Westfield, N. J.
Brown, Jeffrey W.	Oreland	Conner, Kenneth B.	Richboro
Brown, Stephen V.	Williamsport	Connor, Damon P.	Ridley Park
Browne, Roger W.	Philadelphia	Connor, Douglas L.	Philadelphia
Broz, Boris	Westfield, N. J.	Connor, Stephen R.	Wyncote
Buchanan, James R.	Philadelphia	Cook, Franklin R.	Collegeville
Bull, Carol E.	New Hyde Park, N. Y.	Cook, N. Perry	Collegeville
Burgoon, Gloria E.	Littlestown	Coon, Lawrence L., Jr.	N. Catasauqua
Burns, Wilmer F.	Audubon, N. J.	Cooper, Donna J.	Abington
Burton, Mary E.	Williamsport	Cooper, Margaret A.	Sicklerville, N. J.
Byrnes, Judith L.	Nazareth	Coulet, Rene	Kimberton
Bussard, Marta L.	Jenkintown	Craft, Nancy H.	Philadelphia
Cadman, Robert S.	Red Bank, N. J.	Craig, Richard F.	Asbury, N. J.
Cahill, G. Thomas	Drexel Hill	Cranmer, Barbara M.	Manahawkin, N. J.
Caiola, Frank L.	Norristown	Cranmer, Lynn G.	Beach Haven, N. J.
Calder, William T.	Hewlett, N. Y.	Cressman, Carolyn L.	Sellersville
Calvert, Richard A.	Wayne	Cressman, Stephen D.	Westfield, N. J.
Cameron, Raymond D., III	Gwynedd Valley	Crisman, David A.	Havertown
Campbell, Robert E.	Biglerville	Crosley, Lynne E.	Havertown
Canning, Sharon F.	Pottstown	Crough, David G.	Baltimore, Md.
Carle, Edward R.	Richmond Hill, N. Y.	Culiberg, Lorraine D.	Fairless Hills
Carpenter, Linda J.	Springfield	Daggett, William O., Jr.	Mt. Kisco, N. Y.
Carson, George D.	Holland, N. Y.	D'Agostino, Dorothy L.	Trenton, N. J.
Carter, David P.	Roselle, N. J.	Daly, James E.	W. Springfield, Mass.
		Daniels, Richard A.	Glenside

Dannaker, Edward L., III	Morton	Eichel, Barbara J.	Pennsburg
Darley, David	Oreland	Eichlin, Roger F.	Milford, N. J.
Dassler, Mary E.	Green Lane	Eikner, Sallie G.	Broomall
Davis, Lucille D.	Chester Springs	Elfant, Carol J.	Philadelphia
Davis, William E. K.	Westfield, Mass.	Elmo, Rita	Norristown
Dawson, Arthur D.	Woodstown, N. J.	Emery, David R.	Pottstown
Dean, Barbara R.	Conshohocken	Emmert, Ronald P.	Pottsville
Dean, Richard A.	Norristown	Ennis, George	Harmonville
Dearsley, Stephen C.	London, England	Entrekin, Karen L.	Coatesville
DeBeer, Roy A.	Drexel Hill	Epifanio, Joseph E.	Norristown
Decker, Robert B., Jr.	Elizabeth, N. J.	Epting, Alice E.	Fox Chase
Degenhardt, William J.	Philadelphia	Ether, Susanne R.	Media
DeLong, Allyn F.	Pottstown	Euler, Brent W.	King of Prussia
Delp, Arlen R.	Harleysville	Euler, Gary L.	Oreland
Dempsey, Maryann S.	Mantua, N. J.	Evans, Susan E.	Lewisburg
Denzer, Claire D.	Lake Hopatcong, N. J.	Evoy, Martha E.	Haddon Heights, N. J.
DeSilva, Carol J.	Dumont, N. J.	Eyre, S. Jane	Doylestown
DeStefano, Marcella A.	King of Prussia	Facchinetti, B. Marcia	Lansdowne
Detweiler, John S.	Quakertown	Famous, Donald B.	Harleysville
Detwiler, Dorothea M.	Brightwaters, N. J.	Farley, Terrence P.	Osbornville, N. J.
Dickinson, Patricia R.	Allentown	Farr, James B.	Towanda
Dieffenderfer, Joanne E.	Easton	Fatscher, Ruth A. W.	Hempstead, N. Y.
DiEugenio, David G.	Downingtown	Faulkner, Ernest H.	Chester
Dilliplane, Janice G.	Philadelphia	Faussett, William C., Jr.	Havertown
Dittenhafer, Brian D.	York	Faust, Charles D.	Norristown
Divelbiss, Nancy K.	Waynesboro	Faust, James R.	Minersville
Doyle, Deborah M.	Roselle Park, N. Y.	Faust, Nancy J.	Clayton, N. J.
Doyle, Susan E.	Levittown	Feldman, Norman D.	Drexel Hill
Draeger, Kathryn A.	Cheltenham	Feldstein, Murray S.	Havertown
Drake, Elizabeth A.	Maple Glen	Felmann, Francine L.	Norristown
Dreschler, Carole D.	Bronx, N. Y.	Fernandez, Robert C.	Willow Grove
Drenguba, Judith M.	Trenton, N. J.	Ferrell, Georgia D.	Chester
Dresner, Martin L.	Huntingdon Valley	Fessman, Donald N.	Runnemeade, N. J.
Dreyling, Roger L.	Jamesburg, N. J.	Fest, Charles P.	Camden, N. J.
Dryfoos, Walter F.	Hazleton	Feusht, Charlotte L.	Linwood, N. J.
DuDeVoire, Donald L.	Willow Grove	Fiehs, Doris M.	Union, N. J.
Duffield, Conard E.	Norristown	Filler, S. Robert	Burlington, N. J.
DuFresne, Sharon A.	Devon	Fillo, Kathy A.	Elmont, N. Y.
Durnall, Barbara A.	West Chester	Fincke, Guy E.	Abington
Duvall, Susan B.	Camden, N. J.	Findeisen, Mary A.	Spring City
Dyason, Brenda E.	Scarsdale, N. Y.	Finnemeyer, Helen Y.	Landsdale
Easter, Nannette J.	Bethlehem	Fischer, Florence E.	Glassboro, N. J.
Eberwein, Carol D.	Philadelphia	Fisher, Benjamin F.	Orwigsburg
Eble, Susan K.	Abington	Fitts, Holland	Mamaroneck, N. Y.
Eckard, Kurt H.	Morton	Fix, Sandra K.	Reading

Fleming, Robert W.	Plymouth Meeting	Grace, Joan M.	New York, N. Y.
Flood, Carol J.	Media	Grant, Stuart R.	Levittown
Follet, Suzanne	Norristown	Graver, William J.	Glenaside
Folwell, Grace A.	Allentown	Gray, Lynn C.	Coatesville
Ford, Gail E.	Trenton, N. J.	Greim, Barbara A.	Norristown
Forepaugh, Roberta C.	Reading	Griffin, Calvin L.	Norristown
Forsythe, Robert K.	Royersford	Griffiths, James A.	Trenton, N. J.
Foster, Bruce F.	Havertown	Gross, Virginia	Wyomissing
Foucaud, James M.	Floral Park, N. Y.	Grubb, Alethia I.	Chester
Fowler, Leanne M.	Easton	Guyon, Daniel S.	Philadelphia
Fox, Charles E.	Spring City	Haas, MaryAnn K.	Slatington
Frame, Sara J.	Williamstown, N. J.	Habeck, Judith H.	Yonkers, N. Y.
Francis, Barry S.	Pitman, N. J.	Habel, Lynne L.	Allentown
Freed, Christine D.	Point Pleasant	Habgood, Lawrence M.	Hatboro
Freeland, Harvey	Horsham	Haeussner, Charles F.	Philadelphia
Friend, Howard E.	Drexel Hill	Hagerty, Dorothy G.	Philadelphia
Fruman, Harvey B.	Shenandoah	Haik, Carol E.	Haddonfield, N. J.
Fry, Margaret J.	West Chester	Hakanson, Alan H.	Norwell, Mass.
Fugus, Christopher L.	Philadelphia	Hake, James H.	Carversville
Fuhrman, Linda W.	Neffsville	Hall, David A., III	Philadelphia
Furst, Phyllis W.	Lansdale	Hall, Mary B.	Sparta, N. J.
Fusco, Marie D.	Norristown	Hallman, LaVerne R.	Norristown
Garner, Craig C.	Media	Hamblin, Alice E.	Mt. Pocono
Garrett, Frank K.	Langhorne	Hamilton, Lore E.	Drexel Hill
Gartner, John B.	Phoenixville	Hamm, Mary L.	Bangor
Gattiker, Barbara M.	Glenaside	Harding, Sally A.	Radnor
Gazonas, Catherine G.	Norristown	Harper, Douglas J.	Dunellen, N. J.
Gehling, Linda H.	Plainfield, N. J.	Harrelson, Catherine L.	Baltimore, Md.
Gelfand, Toby	Philadelphia	Harris, Nancy J.	Glen Ridge, N. J.
Genter, Frederick H.	Pitman, N. J.	Harrison, Edwin J.	Havertown
Genter, R. Marshall	Pitman, N. J.	Harrison, Geoffrey N.	Reading
Gerhard, Sara-Jane	Reading	Hartman, Lora B.	Lancaster
Gettys, Barbara L.	Media	Hartzell, Lois W.	Chester
Gibbs, Norman E.	Neptune, N. J.	Hawksley, Vaughn C.	Philadelphia
Ginter, Dorothy S.	Collegeville	Hays, Cynthia A.	Havertown
Gilroy, Lois A.	Hillsdale, N. J.	Heal, Thomas J.	Trenton, N. J.
Gladstone, Robert A.	Glenaside	Heale, Elizabeth E.	Havertown
Glass, Larry C.	Hellam	Hearne, Judith M.	Abington
Glessner, Helen C.	Leck Hill	Heber, Carol E.	Philadelphia
Gold, Robert S.	Philadelphia	Heckler, Jay W.	Meadowbrook
Goldacker, George W.	Surf City, N. J.	Heffelfinger, Carol A.	Bethlehem
Goldberg, Victor M.	Philadelphia	Heilemann, John M.	Collegeville
Gordinier, Gayle S.	Audubon, N. J.	Hemsley, Henry W.	Plymouth Meeting
Gordon, Mark, W.	Phoenixville	Hendler, Sandra J.	Abington
Gould, Dennis	Spring Mount	Hennessey, Judith E.	Collingswood, N. J.

Henry, Donald J.	Norristown	Janle, Elsa M.	Philadelphia
Hentz, Charles R.	Riverton, N. J.	Jenney, Margaret	Chester Spring
Herd, Beverly I.	Pottstown	Jenkins, Carolyn E.	Boothwyn
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